

OUTLINE OF GROUP TRAINING COURSES & TRAINING COURSES SPECIALLY OFFERED IN JAPANESE FISCAL YEAR 1998

**OUTLINE OF  
GROUP TRAINING COURSES  
&  
TRAINING COURSES  
SPECIALLY OFFERED  
IN  
JAPANESE FISCAL YEAR 1998**

**COURSES STARTING BETWEEN APRIL 1998 AND MARCH 1999**

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**JAPAN INTERNATIONAL COOPERATION AGENCY  
(JICA)**

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### NOTE

This catalog gives the outline (not all detailed explanation) of each of the "Group Training Courses" and "Training Courses Specially Offered" conducted by JICA in Japan.

It is intended to describe particular points of the respective courses in the limited space of this catalog, and thus some of the common facts and conditions such as follows are not mentioned under each course.

**- common points not mentioned on each page -  
(applicable to all courses)**

- 1) **PURPOSE:** to contribute to promotion of mutual understanding
- 2) **CURRICULUM:** Briefing/orientation session, country report, observation/study visit, and wrap-up/evaluation session are basic elements of curriculum.
- 3) **QUALIFICATION OF APPLICANT:**
  - (a) to be nominated by his/her government in accordance with the relevant procedures
  - (b) to have sufficient command of English (as for some courses, French) language
  - (c) to be in good health, both physically and mentally, to undergo the training (Pregnancy is regarded as a disqualifying condition.)
  - (d) not to be serving in the military

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&  
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**COURSES STARTING BETWEEN APRIL 1998 AND MARCH 1999**

**JAPAN INTERNATIONAL COOPERATION AGENCY  
(JICA)**



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**GROUP TRAINING COURSES**  
(集団コース)



GROUP TRAINING COURSES  
 集団コース

DEVELOPMENT PLAN 開発計画

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J-98-00586	General Management Seminar for Regional Development & Planning .....	17
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J-98-00091	National Government Administration II .....	18
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J-98-00110	Crime Prevention (The Administration of Criminal Justice) II .....	19
	犯罪防止(刑事司法)II	
J-98-00029	Crime Prevention (Treatment of Offenders) II .....	19
	犯罪防止(矯正保護)II	
J-98-00015	Seminar on Control of Drug Offences II .....	20
	薬物犯罪取締セミナーII	
J-98-00194	Seminar on Criminal Investigation (Major Crime Investigation) .....	20
	国際捜査セミナー(凶悪犯捜査)	
J-98-00079	Traffic Police Administration Seminar .....	20
	交通警察行政研修	
J-98-00569	Seminar on Government Human Resource Management .....	20
	上級人事管理セミナー	
J-98-00342	Rescue and First Aid Techniques .....	21
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J-98-00362	Fire Fighting Techniques .....	21
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J-98-00579	Fire Service Administration .....	21
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J-98-00468	Environmental Management for Enclosed Coastal Seas .....	23
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J-98-00329	Environmental Engineering (Air Pollution Control) .....	24
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J-98-00382	Air Pollution Control .....	24
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J-98-00470	Air Pollution Source Monitoring Practice .....	24
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J-98-00398	Industrial Wastewater Treatment Technique .....	24
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J-98-00311	Industrial Pollution Control Engineering .....	25
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J-98-00469	Domestic Wastewater Treatment Technique .....	25
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J-98-00454	Environmental Radioactivity Analysis and Measurement .....	25
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J-98-00449	Nature Conservation and Natural Parks Management .....	25
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J-98-00506	Environmental Administration .....	26
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J-98-00476	Environmental Impact Assessment .....	26
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J-98-00447	Seminar on Ozone Layer Protection and Applicable Techniques .....	26
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J-98-00572	Training Course to Develop National Inventories and Strategies Against Climate Change .....	26
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J-98-00060	Practical Statistics II .....	27
	統計実務 II	
J-98-00254	Automatic Data Processing for Trainers .....	27
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J-98-00567	Analysis and Interpretation of Statistics .....	27
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J-98-00555	Computer (DP Division Manager) ..... コンピュータ(情報処理部門管理者)	28
J-98-00562	Computer (System Analyst (A)) ..... コンピュータ(システムアナリスト(A))	28
J-98-00563	Computer (System Analyst (B)) ..... コンピュータ(システム・アナリスト(B))	28
J-98-00564	Computer (Network Engineer (A)) ..... コンピュータ(ネットワーク技術者(A))	29
J-98-00565	Computer (Network Engineer (B)) ..... コンピュータ(ネットワーク技術者(B))	29
J-98-00559	Computer (Online Database System Designer) ..... コンピュータ(オンラインデータベースシステム設計者)	29
J-98-00556	Computer (Instructor) ..... コンピュータ(情報処理技術インストラクタ)	29
J-98-00560	Computer (UNIX Server System Designer (A)) ..... コンピュータ(UNIXサーバシステム設計者(A))	30
J-98-00561	Computer (UNIX Server System Designer (B)) ..... コンピュータ(UNIXサーバシステム設計者(B))	30
J-98-00557	Computer (PC Server System Designer (A)) ..... コンピュータ(PCサーバシステム設計者(A))	30
J-98-00558	Computer (PC Server Designer (B)) ..... コンピュータ(PCサーバシステム設計者(B))	30
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J-98-00573	Waterworks Engineering ..... 水道技術者養成	31
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J-98-00111	Solid Waste Management and Night Soil Treatment II ..... 廃棄物処理 II	32
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J-98-00323	Administration System for Motor Vehicle ..... 自動車行政制度	33
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J-98-00343	Maritime Search and Rescue Operation and Maritime Disaster Prevention ..... 救難防災	33
J-98-00148	Aids to Marine Navigation II ..... 航路標識 II	34
J-98-00379	Marine Technique (Navigator) ..... 航海技術(航海士)	34
J-98-00380	Marine Technique (Engineer) ..... 航海技術(機関士)	34
J-98-00331	Development of Container Terminal ..... コンテナ埠頭整備計画	34
J-98-00035	Port and Harbour Engineering II ..... 港湾工学 II	35
J-98-00440	Seminar on Port Administration and Management ..... 港湾管理運営セミナー	35
J-98-00318	Seminar on Aviation Security ..... 航空保安セミナー	35
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J-98-00012	Seismology and Earthquake Engineering II ..... 地震工学 II	36
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J-98-00402	Seminar on Administration for Disaster Prevention ..... 防災行政管理者セミナー	38
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J-98-00474	Agricultural & Rural Development with Environmental Conservation .....	49
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J-98-00568	Statistical Information System for Agriculture ..... 50 農業統計情報システム
J-98-00576	Introductory Gene Manipulation for Agriculture ..... 50 農業生産のための遺伝子操作技術
J-98-00093	Irrigation and Drainage II ..... 51 灌漑排水 II
J-98-00159	Agricultural Land and Water Resources Development II ..... 51 農地水資源開発 II
J-98-00348	Irrigation Water Management ..... 51 水管理
J-98-00050	Farm Mechanization II ..... 51 農業機械化 II
J-98-00276	Farm Machinery Design ..... 52 農業機械設計
J-98-00433	Agricultural Machinery Management ..... 52 農業機械管理
J-98-00446	Farm Machinery Testing ..... 52 農業機械評価試験
J-98-00514	Post-Harvest Rice Processing ..... 52 米の収穫後処理技術

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J-98-00582	Embryo Transfer Technology for Cattle ..... 53 牛受精卵移植技術
J-98-00334	Dairy Farming & Related Industries ..... 54 酪農振興・検査技術

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J-98-00445	Forest Management and Planning ..... 54 森林管理計画
J-98-00501	Forest Research ..... 54 森林研究
J-98-00386	Wood Based Materials Application Technology ..... 55 木質材料高度利用技術

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J-98-00515	Handling and Processing of Fish and Marine Products .....	57
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J-98-00242	Examination Practice on Industrial Property .....	59
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J-98-00357	Bioindustries .....	61
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**GROUP TRAINING COURSES**  
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**DEVELOPMENT POLICIES**

Apr. 6, '98 - Oct. 2, '98, 12 participants

開発政策

J-98-00171

- 1. PURPOSE** The purpose of the course is to train the participants to learn the way of applying development economics to development planning in respective countries. The participants will be introduced to (1) development economics in general (2) national and regional development planning, and the interrelationship of individual projects, using case studies of developing countries and Japan, (3) the theory of project appraisal and planning by case studies so as to apply new knowledge to the workshops as practice.
- 2. MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the course. (1) macroeconomics and development economics (2) theories and techniques of micro project planning (3) macro development planning (4) Japanese economic development (5) introduction to empirical analysis (6) macro-sectoral workshop (7) Final Thesis. All the participants will be requested to write a research paper based on the knowledge and techniques of economic analysis.
- 3. QUALIFICATION OF APPLICANT** (1) working on the planning or implementation of national or regional development projects and policy, and preferably be under 35 years of age (2) has an undergraduate degree in economics or business administration as well as basic experience and knowledge regarding development projects (3) has a good background of mathematics (4) has a sufficient command of English (scoring more than 550 on the TOEFL or its equivalent)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Development Center of Japan (IDCJ)

**SEMINAR ON ECONOMIC DEVELOPMENT POLICIES**

Jun. 17, '98 - Aug. 8, '98, 16 participants

経済政策セミナー

J-98-00453

- 1. PURPOSE** To expose the participants to the economic development policies to be interactively presented in the forms of lectures, field trips, etc. with the particular emphasis on the empirical aspects distilled from the Japan's experiences, by which the participants will in turn produce and present the papers on the economic development policies related to the specific subjects as they are "structural adjustment and industrialization" for the fiscal year 1997
- 2. MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in the seminar: (1) country report presentation and discussion together with area study, (2) lecture-cum-discussion (a) Japan's economic development and policies, (b) structural adjustment policies or industrialization (c) economic analysis method (d) Japan's economic cooperation (3) field trip and study visits (4) final report writing, presentation, and discussions
- 3. QUALIFICATION OF APPLICANT** (1) central government planner engaged in economic development planning and have at least 7 years' occupational experience in this field (2) have an academic background in economics or those having proper experience and knowledge on economic policy and planning (3) between 30 and 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Economic Planning Agency (EPA) (3) Daiwa Institute of Research Ltd. (DIR)

**REGIONAL DEVELOPMENT POLICY**

Sep. 29, '98 - Nov. 12, '98, 10 participants

国土開発

J-98-00258

- 1. PURPOSE** The purpose of the course is to provide the participants with the latest theoretical and practical knowledge of regional development policy through lectures, discussions and observation trips, thereby contributing to regional development in the participating countries.
- 2. MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese experience and discussions based on report presentation by participants. The seminar deals with planning, policy formulation and implementation of regional development. The major subjects are: (1) outline of regional development policy (2) specific study for regional development policy (3) case studies (4) discussions based on country reports and study reports
- 3. QUALIFICATION OF APPLICANT** (1) engaged in the planning or implementation of national or regional development projects and policies for more than 3 years (2) university graduate or equivalent (3) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Minister's Secretariat, National Land Agency

**GENERAL MANAGEMENT SEMINAR FOR REGIONAL DEVELOPMENT AND PLANNING**

Oct. 12, '98 - Dec. 5, '98, 7 participants

地域開発計画管理セミナー

J-98-00586

- 1. PURPOSE** This course is designed to provide the participants with a practical knowledge and wide-range perspectives for planning and management of regional development policies through the effective combination of case studies, lectures, discussions and field-trips regarding regional development in Hokkaido.
- 2. MAIN FEATURES OF CURRICULUM** Main themes of this course are as follows: (1) familiarity with basic policies and systems of regional development in Hokkaido (2) study of planning and managing regional development policies based on the case studies of relevant projects (3) knowledge of methods in planning and promoting regional development projects on a local level (4) basic knowledge of the relation between development planning and environmental problems
- 3. QUALIFICATION OF APPLICANT** (1) engaged in the planning or implementation of national or regional development projects and policy (2) university graduate or equivalent (3) over 25 and under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Hokkaido Development Agency

**LOCAL GOVERNMENT ADMINISTRATION AND PUBLIC SERVICES**

Jan. 4, '99, Mar. 18, '99, 9 participants

地方自治体行政

J-98-00593

- PURPOSE** This course is intended to introduce the general framework of Japanese local governments and public services to officials of medium-scale local governments in participating countries. The course provides them with lectures in topics such as taxation system, educational administration, public welfare, health, medical care, environmental sanitation, etc.
- MAIN FEATURES OF CURRICULUM** In this course, the following topics will be covered by lectures and study tours: (1) local government systems (2) administrative practice: environmental sanitation, water supply and sewage work, health and medical care, public welfare, education, agriculture and forestry, promotion of commerce and industry (3) system of parliamentary election
- QUALIFICATION OF APPLICANT** (1) college graduate or equivalent (2) sectional or department head of administration sections responsible for overall functions of local governments (3) less than 45 years of age
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Ibaraki City Hall
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

**LOCAL GOVERNMENT II**

May 5, '98 - Jul. 15, '98, 10 participants

地方行政 II

J-98-00059

- PURPOSE** The purpose of the course is to contribute to the development and improvement of local government administration methodology in participating countries through introducing the roles, systems and functions of Japanese local government and to provide opportunities to exchange ideas and information among the participants.
- MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions, comparative studies, field studies in local governments and observation trips. (1) local government system in Japan (2) election system in Japan (3) local public administration (4) local public finance (5) regional development
- QUALIFICATION OF APPLICANT** (1) university/college graduate or equivalent with occupational experience of more than seven years in the civil service relating to local public administration (2) over 30 but under 40 years of age (3) civil service personnel holding responsible government position (managerial or supervisory) and be promising candidate for the post of top management in the local government or that of senior management in the central government in the future
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Local Autonomy College (LAC), Ministry of Home Affairs
- REMARKS** (1) Country Reports will be highly utilized both for the screening of participants and for the comparative studies.

**NATIONAL GOVERNMENT ADMINISTRATION II**

May 12, '98 - Jun. 26, '98, 9 participants

国家行政 II

J-98-00091

- PURPOSE** The main purposes of this course are: (1) to assist participants in seeking better ways to improve public administration in order to assure efficient formation of policy (2) to introduce them to modern public administration practices appropriate to economic and social development.
- MAIN FEATURES OF CURRICULUM** This course focuses on the early stage (fundamental phase) of modernization in development countries with reference to the Japanese experience after the Meiji Restoration (1868). It covers the following topics. (1) modernization in Japan (a) public administration and civil service system (b) modernization process (2) fundamental policy areas for modernization - case study (lectures on the policy process of specified cases will be given with reference to previously made observations of actual policy implementation.) This year's case study will come from the following subjects: (a) educational system (b) developmental policy for industries (c) infrastructure building - road construction (d) agricultural development (e) local autonomy system (3) fundamental policy areas - framework analysis (a) role of public administration for development (b) policy process (c) human resource management (d) financial management (4) modernization of public administration in participating countries - discussion (a) modernization of educational system (b) developmental policy for industries (c) improvement of human resource management in the public sector.
- QUALIFICATION OF APPLICANT** (1) government officer on a level of division assistant director in principle, promising to be a senior member of the staff in the national government offices, and be related to policy formation (2) university graduate or equivalent, with occupational experience of five years or more in public administration (at least two years of which in the government) (3) not less than 30, and not more than 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority

**SEMINAR ON NATIONAL GOVERNMENT ADMINISTRATION (SENIOR CLASS OFFICIALS)**

Nov. 5, '98 - Dec. 13, '98, 9 participants

上級国家行政セミナー

J-98-00320

- PURPOSE** The purposes of this seminar are: (1) to introduce participants to recent trends in public administration and policy formation (2) to assist them in considering methods of flexible and appropriate policy formation as well as its implementation in varying stages of socio-economic development.
- MAIN FEATURES OF CURRICULUM** As the targeted period of development, this seminar focuses on the take-off stage of modernization referring to the Japanese experience in the period of her rapid economic growth after World War II. It covers the following topics: (1) socio-economic development and government administration in Japan (a) public policies for economic development (b) system of government (c) civil service system (2) bureaucracy and socio-economic development (a) economic development in developing countries (b) role of government in socio-economic development (c) human resources development
- QUALIFICATION OF APPLICANT** (1) senior class official (division director or above involved in policy formation) (2) university graduate or equivalent, with occupational experience of more than ten years (at least two years of which in the government) (3) between 40, and 50 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority

**MANAGEMENT OF PUBLIC ADMINISTRATION**

Feb. 8, '99 - Mar. 12, '99, 7 participants

行政管理

J-98-00580

- 1. PURPOSE** The purpose of this course is to provide participants with the fundamental knowledge and methodology necessary for overall management, promotion and coordination of GIS (Government Information Systems), and to train them to implement GIS efficiently in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures and individual research work. The main topics of the lectures are; (1) Japan's present situation and policies for overall management and coordination of GIS (2) basic matters for construction of GIS (database, network, office automation, systems security, etc.) (3) trends of new information-oriented society (freedom of information, protection of privacy, etc.) (4) latest information technology At the end of the course, each participant is to present the report written in their group work.
- 3. QUALIFICATION OF APPLICANT** (1) official who belongs to a government body responsible for overall management and coordination of Government Information Systems, or a government body in a state of planning, which shall be responsible or considered suitable for the task mentioned above (2) have the knowledge and skills in computer data processing, preferably with experiences in developing and/or managing Government Information Systems (3) under 40 years of age (4) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Government Information systems Planning Division, Administrative Management Bureau, Management and Coordination Agency

**CRIME PREVENTION (SENIOR SEMINAR) II**

Jan. 11, '99 - Feb. 21, '99, 17 participants

犯罪防止(上級)II

J-98-00092

- 1. PURPOSE** The seminar, entitled "Crime Trends and Effective Crime Prevention Strategies in the Changing Society", purports to examine and develop ways and means to more effectively tackle crime from a proactive rather than reactive stance by exploring the current situation and manifestations of crime in the participating countries and discussing the corresponding crime prevention strategies employed.
- 2. MAIN FEATURES OF CURRICULUM** To achieve the above purpose, the seminar will be conducted in the form of discussions based on the knowledge and experiences of the participants as well as the UNAFEI faculty and visiting experts. Specifically, individual presentations by the participants will enable the comparison of the distinct systems and practices of the represented countries in regards to the main theme of the Seminar. General discussions in the form of plenary meetings will develop further the seminar theme. The results of these discussions will be compiled into several reports by the participants, which will subsequently be published by UNAFEI in the Resource Material Series. Additionally, the seminar will include lectures by visiting experts and ad hoc lecturers as well as visits to relevant criminal justice agencies in Japan.
- 3. QUALIFICATION OF APPLICANT** (1) High-ranking criminal justice administrator at the policymaking level whose duties are closely related to the main theme of the seminar, and the rank of divisional director level or above in the central bureau of the agencies concerned with criminal justice, e.g., Ministry of Justice, Ministry of Interior, Supreme Court, etc. (2) between 35 and 55 years of age with the expectation to continue to work in this field for a minimum period of two years.
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

**CRIME PREVENTION (THE ADMINISTRATION OF CRIMINAL JUSTICE) II**

Aug. 24, '98 - Nov. 22, '98, 14 participants

犯罪防止(刑事司法)II

J-98-00110

- 1. PURPOSE** The purpose of the course is to provide the participants with an opportunity to study and to discuss contemporary problems concerning crimes and their effective countermeasures.
- 2. MAIN FEATURES OF CURRICULUM** The course emphasizes the discussions on crime prevention activities, effective investigation of economic crime and computer network crime, and role of criminal justice in protecting economic order, through which the participants will acquire the abilities in (1) analyzing the present situation of economic crime and computer network crime and to find possible measures to prevent it (2) examining the effective measures to cope with difficulties in criminal justice administration related to economic crime and computer network crime (3) searching the effective justice administration (4) collecting enough information on legislation regarding economic crime and computer network crime (5) understanding what role criminal justice administration should play in protecting economic order. In the course, the participants will be divided into small groups chosen by themselves and given ample opportunity to exchange views and experiences on selected problems. The result of the discussions will be summarized and published. Additionally, the seminar will include lectures by visiting experts and ad hoc lecturers as well as visits to relevant criminal justice agencies in Japan.
- 3. QUALIFICATION OF APPLICANT** (1) Holding a relatively senior position in a central bureau, department or field agency concerned with investigation, prosecution, trial or prevention of crime or treatment of offenders, and has at least 5 years of practical experience in one's field (2) university graduate or equivalent (3) between 30 and 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

**CRIME PREVENTION (TREATMENT OF OFFENDERS) II**

Apr. 6, '98 - Jul. 5, '98, 14 participants

犯罪防止(矯正保護)II

J-98-00029

- 1. PURPOSE** The purpose of the course is to provide the participants with an opportunity to study and discuss various contemporary problems concerning effective treatment measures for prisoners to facilitate their reintegration into society.
- 2. MAIN FEATURES OF CURRICULUM** This course is mainly conducted in the form of discussions based upon the knowledge and experience of the participants with the advice of the faculty and visiting experts. The characteristic feature of the course is group discussion, through which the knowledge and experience of the participants will be utilized to the fullest extent. (1) Participants will discuss from various angles the following topics as they apply to their respective countries in order to further improve and strengthen the measures to facilitate prisoners' reintegration into society after release from prison (a) correctional treatment in prisons (b) early release systems, and (c) treatment for discharged prisoners in the community (2) lectures by specialists on subjects relating to the main theme of "Effective Treatment Measures for Prisoners to Facilitate Their Reintegration into Society" (3) Visits to several relevant institutions and agencies.
- 3. QUALIFICATION OF APPLICANT** (1) Holding a relatively senior position in a central bureau, department or field agency concerned with the treatment of offenders, and has at least five years of practical experience in one's field (2) university graduate or equivalent (3) between 30 and 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Asia and Far East Institute for the Prevention of Crime and the Treatment of Offenders (UNAFEI)

**SEMINAR ON CONTROL OF DRUG OFFENCES II**

Oct. 11, '98 - Oct. 28, '98, 17 participants

薬物犯罪取締セミナー II

J-98-00015

- PURPOSE** The purpose of the seminar is to study effective and practical measures to eradicate drug offences as well as to further intensify international cooperation and deepen mutual understanding among the nations concerned, through discussion and exchange of experiences.
- MAIN FEATURES OF CURRICULUM** This seminar covers the following topics: (1) lecture (a) police activities in Japan (b) current trends and situation in drug offences and their countermeasures in Japan (c) Japanese organized crime organization (Yakuza) (2) presentation and discussion (a) major drug problems facing each society (b) current situation of drug syndicates (c) way to improve international investigative cooperation (d) investigative methods/techniques
- QUALIFICATION OF APPLICANT** (1) official in the rank of director of division or its equivalent in charge of drug law enforcement at the central government (2) have experience of more than three years in drug law enforcement (3) have knowledge of identification techniques
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Police Agency (NPA)

**SEMINAR ON CRIMINAL INVESTIGATION  
(MAJOR CRIME INVESTIGATION)**

Apr. 8, '98 - May 3, '98, 9 participants

国際捜査セミナー(凶悪犯捜査)

J-98-00194

- PURPOSE** This seminar is designed to contribute to further development of knowledge and techniques of criminal investigation, namely by: (1) providing participants with common arena for study and discussion of problems and issues concerning criminal investigation, focusing on major crime, and (2) familiarizing participants with the system, equipment and facilities for criminal investigation and identification presently in operation in Japan.
- MAIN FEATURES OF CURRICULUM** This seminar covers the following topics: (1) lecture (a) Outline of Japanese Police (b) Criminal Procedure and Public Security (c) History of Reinforcing Procedure for Japanese Criminal Investigation (d) Management & Control of Investigation Headquarters (e) Tactical Investigation (Barricade Situation) (f) Criminal Identification Activities (g) Community Policing (h) Initial Action Procedure & Communication System (2) Observation of related facilities (3) Situation Simulation Exercise (Supposing Murder) (3) Participants' presentation on Case study
- QUALIFICATION OF APPLICANT** (1) be a director, or in an equivalent position to this, of division in charge of criminal investigation in the central police organization (2) be a superintendent, lieutenant colonel, or in a higher position, between 35 and 50 years old at present (3) have a sufficient command of spoken and written English to participate in effective discussions
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) International Research & Training Institute for Criminal Investigation, National Police Academy (IRTIC)

**TRAFFIC POLICE ADMINISTRATION SEMINAR**

Nov. 4, '98 - Dec. 7, '98, 11 participants

交通警察行政研修

J-98-00079

- PURPOSE** The purpose of the seminar is to broadly introduce traffic police administration in Japan to participants through lectures and technical visits, and also to provide opportunities to exchange information on traffic police in participating countries and to study measures to solve traffic problems of their mutual concern, thus to contribute to the betterment of traffic police administration in the developing countries.
- MAIN FEATURES OF CURRICULUM** This seminar covers the following topics: (1) Japanese Police System (2) Chronological Summary of Road Traffic Measures (3) Subjects related to Traffic Planning Division (4) Subjects related to Traffic Enforcement Division (5) Subjects related to Traffic Management and Control Division (6) Subjects related to Urban Traffic Control Division (7) Subjects related to Driver's Licence Division (8) Technical Visits (9) Participants Country Report Presentation
- QUALIFICATION OF APPLICANT** (1) a director or a chief police superintendent who supervises or is dealing with traffic police affairs in the central police organization (2) university graduates or their equivalent
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Traffic Planning Division, Traffic Bureau, National Police Agency (NPA)

**SEMINAR ON GOVERNMENT HUMAN RESOURCE  
MANAGEMENT**

Sep. 1, '98 - Sep. 27, '98, 9 participants

上級人事管理セミナー

J-98-00569

- PURPOSE** This seminar introduces participants to the current Japanese human resource management policy of the government, which supports national prosperity. Although the actual framework of human resource management varies from country to country, understanding the dynamism of human resource management in Japan may be of great help in identifying crucial problems of human resource management in other countries. The purpose of this seminar is thus to assist participants in forming policies of human resource management which are suitable for their own country's circumstances.
- MAIN FEATURES OF CURRICULUM** The following topics will be covered in the seminar: (1) overview of human resource management (HRM) (a) introduction to civil service system (b) role of bureaucrats (2) major issues of HRM (a) career development (b) remuneration system (c) work ethics (3) practical aspects of Japanese HRM (a) on-the-job training and information sharing (b) HRM in private companies
- QUALIFICATION OF APPLICANT** (1) senior class official (division director or above) in charge of personnel policy formation in central personnel agencies (2) university graduate or equivalent, with occupational experience of more than ten years (at least two years of which in the government)
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Personnel Authority



## RESCUE AND FIRST AID TECHNIQUES

Jun. 29, '98 - Sep. 27, '98, 10 participants

救急救助技術研修

J-98-00342

- 1. PURPOSE** The purpose of the course is to provide participants with opportunities to acquire high-level knowledge and skills in rescue operations in Japan so that they can subsequently enhance the rescue techniques of training personnel engaged in rescue service in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** This course will be conducted mainly in the form of rescue practice on the following subjects: (1) physical strength development method (2) rope knotting (3) ascending, descending and traversing by rope (4) usage of rescue tools (5) entry technique (6) rescue technique (7) searching technique (8) first aid
- 3. QUALIFICATION OF APPLICANT** (1) have a sufficient experience in rescue service and expected to play key roles in this field (2) expected to become a leader in the field of rescue service (3) under 30 years of age in principle
- 4. TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC) JICA (2) Osaka Municipal Fire Government
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

## FIRE FIGHTING TECHNIQUES

Jul. 6, '98 - Oct. 23, '98, 10 participants

消火技術

J-98-00362

- 1. PURPOSE** The main purposes of this training course are as follows: (1) to enable participants to understand the outline of the organization, systems and roles of fire service administration, as well as the present situation of various disasters in Japan. (2) to help participants acquire knowledge and techniques to rescue people and extinguish fires such as high-rise building fires, hazardous and petroleum material fires, mountain fires, forest fires, ship fires and aircraft fires, at the early stage by commanding fire-fighting units on the ground, utilizing various fire engines, fire-fighting techniques and equipment.
- 2. MAIN FEATURES OF CURRICULUM** The course will be conducted in the form of lectures, practical training, visits, study trips, and presentation of Country Reports. Lectures will be given mainly by using textbooks and audio visual equipment such as video tapes and films. Practical training will be given by utilizing all kinds of fire engines, fire fighting equipment and tools. The training course is programmed to provide following knowledge and techniques: (1) rescuing people from different types of fires promptly and controlling fires by commanding fire fighting units effectively (2) roles and functions of fire engines and equipment in Japan (3) outline of the history and systems of fire service administration in Japan (4) present situation of disasters and measures to cope with disasters caused by urbanization (5) roles of fire service organizations and activities of fire fighting personnel in Japan (6) fire service administration of the participating countries by comparing and discussing the present situation of fire service administrative activities of respective countries
- 3. QUALIFICATION OF APPLICANT** (1) presently engaged in fire service, have at least five years' experience (2) university graduate or equivalent (3) 40 years of age or less
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Fire Defence Agency, Ministry of Home Affairs (3) Kitakyushu City Fire Department, Fire Training Centre
- 5. REMARKS** (1) A compulsory 45-hour Japanese language course will be conducted prior to the technical training.

## FIRE PREVENTION TECHNIQUES

Sep. 15, '98 - Nov. 30, '98, 6 participants

火災予防技術

J-98-00478

- 1. PURPOSE** To upgrade the knowledge about the Japanese administration for fire fighting and disaster prevention and the activities to prevent fires and natural disasters.
- 2. MAIN FEATURES OF CURRICULUM** The emphasis is put on lectures, practical training and observations. The main themes are; (1) Japanese legislation and administration of fire services and preventing disasters in Japan (2) system to prevent fires in advance; measures for fire prevention at buildings, legal system governing fire inspection granted to fire service organizations, measures for fire prevention on dangerous objects, measures for investigation of fire causes (3) system to prevent natural disasters
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience (2) administrative officer or candidate for it, who is presently engaged in planning/drafting of Fire Service System, or in administrative section for Fire Service Implementation (3) not more than 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Nagoya City Fire Bureau (3) Fire Stations in Nagoya City
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (50 hours).

## FIRE SERVICE ADMINISTRATION

Sep. 10, '98 - Nov. 19, '98, 8 participants

消防行政管理者研修

J-98-00579

- 1. PURPOSE** This course is to provide the administrative officers, who are engaged in fire fighting and disaster management, the following method as a whole. Management and coordination for the Japanese organization, system, education and so on. The course will be conducted through the lecture, observation and have the time to investigate the issues from the respective countries for the purpose of resolving, as well as of contributing to the development of the above management for the countries concerned.
- 2. MAIN FEATURES OF CURRICULUM** (1) By the end of the course, Participants are expected to gain a better understanding of the following subjects; (a) Measures for strengthening Administrative Functions, Effective Administrative System in Fire Service and Fire Fighting (b) The system and management of Disaster prevention currently in Japan (c) Countermeasures for the fire Prevention (d) Collecting and transmission system for disaster information (2) Above course will be carried out through lectures, observations, discussions, study tours and so forth.
- 3. QUALIFICATION OF APPLICANT** Applicants should: (1) be administrative officers who are currently engaged in fire fighting or disaster prevention in the Government or municipalities (2) be university graduates or equivalent with occupational experience (3) be and over 25 years and not more than 40 years of age
- 4. TRAINING INSTITUTIONS** This course will be held at Fire and Disaster Management Agency (FDMA), Ministry of Home Affairs.
- 5. REMARKS** The course does not include Japanese Intensive Course.
- 6. OTHER** Above course will be jointly carried out with past two courses below; Fire Service for Administrative Officer, Disaster Prevention Management

**GOVERNMENT AUDITING SEMINAR  
(COMPUTER AUDITING)**

Feb. 15, '99 - Mar. 21, '99, 8 participants

政府会計検査セミナー(コンピュータ会計検査) J-98-00257

- 1. PURPOSE** The purpose of this seminar is to give SAI (Supreme Audit Institution) auditors an opportunity to study and discuss computer audit aspects and techniques and thus contributes to SAI auditors' audit capabilities in this field.
- 2. MAIN FEATURES OF CURRICULUM** This seminar aims to introduce Japan's experience in computer auditing. The main themes are: (1) computer system in the Board of Audit (2) system audit and case study (3) evaluation of computer system (4) audit of computerized system (5) computer-assisted audit techniques
- 3. QUALIFICATION OF APPLICANT** (1) official of the Supreme Audit Institution, who have no less than ten years of audit experience (2) have basic knowledge of computer (3) have actual work experience of computer auditing (4) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Board of Audit

**SEMINAR ON TAXATION  
(GENERAL TAX COURSE)**

Aug. 25, '98 - Dec. 4, '98, 19 participants

国際税務行政セミナー(一般租税コース) J-98-00217

- 1. PURPOSE** The purposes of this seminar are to contribute to the improvement of the tax systems and tax administrations of developing countries through transferring technical knowledge and skills of the Japanese tax system and tax administration, to have participants well-versed in Japanese tax administration, and to promote mutual understanding among participating countries.
- 2. MAIN FEATURES OF CURRICULUM** This seminar places major emphasis on the administration of internal taxes, and mainly covers: (1) public finance of Japan (2) outline of the Japanese tax system (3) outline of main taxes in Japan (4) operation of taxation department (5) efficient examination (6) tax dispute
- 3. QUALIFICATION OF APPLICANT** (1) official of the department in charge of tax administration except customs (2) under 40 years of age (3) have more than five years of occupational experience in tax administration or in planning of tax system (4) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) National Tax Administration

**SEMINAR ON TAXATION (SENIOR TAX COURSE) II**

Sep. 6, '98 - Oct. 3, '98, 10 participants

国際税務行政セミナー(上級租税コース) II J-98-00115

- 1. PURPOSE** This seminar is conducted with the following purposes: (1) to contribute to the improvement of the tax system and tax administrations of developing countries through transferring technical knowledge and skills of the Japanese tax system and tax administration. (2) to have participants well-versed in Japanese tax administration, and to promote friendly relations among participating countries, including Japan.
- 2. MAIN FEATURES OF CURRICULUM** This seminar places major emphasis on the administration of internal taxes. It covers the following topics: (1) outline of public finance, tax system and tax administration in Japan (a) public finance of Japan (b) outline of Japanese tax system (c) tax administration in Japan (general introduction) (d) tax administration in Japan (detail) (i) Enhancing Tax Compliance (ii) Consumption Tax Enforcement (iii) Practice of Examination (e) international taxation (2) presentation of Country Reports and round discussion topics of round table discussion: (a) system of assessment (b) system of collection
- 3. QUALIFICATION OF APPLICANT** Be ranked as a senior-class official of the department in charge of tax administration except customs (Note: This seminar is designed for the Deputy Commissioner or Assistant Commissioner of the Head Office, the Commissioner or the Deputy Commissioner of the Regional Taxation Bureau, or the District Director of the Tax Office.)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Tax Administration (NTA)

**CUSTOMS TECHNIQUES II**

Aug. 25, '98 - Oct. 16, '98, 15 participants

税関行政 II J-98-00123

- 1. PURPOSE** The purpose of the course is to contribute to the development and improvement of Customs techniques in participating countries through the introduction of the Japanese Customs system and techniques and carrying out comparative studies. At the same time, it aims at deepening mutual understanding and promoting friendly relationship among participating countries and Japan.
- 2. MAIN FEATURES OF CURRICULUM** The course covers following subjects: (1) organization and function of the Japanese Customs administration (2) Customs and tariff policy, and the systems for the revision of tariff rates (3) cargo and passenger processing in general and computerized clearance system (4) classification techniques under the Harmonized System (5) WTO Valuation Agreement and post clearance audit techniques (6) function and control of Warehousing (7) intelligence management including RISK assessment, profiling and targeting (8) protection of Intellectual Property Right, endangered species and earth environment (9) human resource development programme, with emphasis on the training
- 3. QUALIFICATION OF APPLICANT** (1) currently Customs official at middle level (2) university graduate or equivalent (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Custom and Tariff Bureau, Ministry of Finance

**MARINE POLLUTION SURVEILLANCE AND CONTROL**

Aug. 6, '98 - Oct. 25, '98, 8 participants

海洋保全

J-98-00289

- PURPOSE** The course is organized for officials who are engaged, by profession, in the prevention of marine pollution. It introduces techniques for surveillance and control of marine pollution mainly caused by illegal discharge of waste materials, and for analysis of such substances as routine tasks. At the same time it introduces the official activities of Japan concerning the protection of marine environment.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures and laboratory work, focusing on surveillance and analysis of oil. The main themes are; (1) surveillance and control of marine environment (2) discrimination and identification of oil (3) oil sample analysis
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent, or have an occupational experience of more than five years in the field of marine pollution prevention (2) presently engaged in the above-mentioned field (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Okinawa International Center (OIC), JICA (2) Maritime Safety Agency (3) 11th Regional Headquarters of Maritime Safety Agency

**LAKE WATER QUALITY MANAGEMENT**

Jan. 4, '99 - Mar. 21, '99, 10 participants

湖沼水質保全

J-98-00450

- PURPOSE** This course is intended for technical administrators and leading researchers engaged in the establishment and implementation of policies and measures for preservation and management of water quality of lakes (natural and artificial) in developing countries. Techniques needed for water quality management of lakes, such as measurement, prevention, estimation and control techniques at a higher level, will be introduced to the participants through lectures and practices. Participants are expected to acquire fundamental knowledge required for making plans and programmes for proper management of lake water quality. This course aims to contribute to the qualitative improvement and sound development of environmental conservation of lakes and reservoirs in participating countries.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on workshop practice. The main themes are: (1) lectures (a) environmental problems related to lakes and reservoirs (b) water pollution prevention techniques (c) water quality management (d) water pollution estimation techniques (e) environment management techniques (f) administrative measures for environmental preservation (2) practices (a) water treatment techniques (b) measurement techniques (c) environment management techniques
- QUALIFICATION OF APPLICANT** (1) technical administrator in charge of lake or wetland water, or rivers which flow into lakes or wetland (with occupational experience of at least five years) who is expected to assume executive administrative posts in the field of water quality management in the future, (2) or researcher for water quality measurement laboratories (with professional experience of at least 5 years), who is expected to take a leading role for planning proper management of water quality in lakes, wetlands and tributary rivers (3) university graduate having majored in environmental engineering, limnology, chemistry, biology, or having equivalent technical knowledge (4) under 35 years of age
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) International Lake Environment Committee Foundation
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

**ENVIRONMENTAL MANAGEMENT FOR ENCLOSED COASTAL SEAS**

Sep. 21, '98 - Nov. 29, '98, 8 participants

閉鎖性海域の環境管理技術

J-98-00468

- PURPOSE** The purpose of the course is to provide the officials in administrative bodies which are engaged in the environmental management of enclosed coastal seas with following: (1) technical knowledge related to environmental management strategies specifically applied to Seto Inland Sea, which would give the participants opportunities to examine possible applicabilities of these strategies to their respective countries. (2) an opportunity in which the participants can discuss with Japanese expert in environmental management field and exchange views and opinions.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of comprehensive knowledge on the following subjects through lecture, practice and field trip. (1) general view (2) phenomena and mechanism of water pollution (3) modeling (4) investigation and measurement (5) management techniques (6) environmental management policies (7) public awareness
- QUALIFICATION OF APPLICANT** (1) leading officer in administrative body presently engaged in environmental management of enclosed coastal seas (2) university graduate and/or those who have equivalent practical experience of not less than three years in the field of environment on enclosed coastal seas (3) not less than 26, and not more than 40 years of age
- TRAINING INSTITUTIONS** (1) Hyogo International Centre (HIC), JICA (2) Environmental Conservation Association of Seto Inland Sea (3) Environmental Science Institute of Hyogo Prefecture
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for several days.

**ENVIRONMENTAL MONITORING (WATER QUALITY)**

Sep. 15, '98 - Nov. 8, '98, 10 participants

環境モニタリング(水質)

J-98-00448

- PURPOSE** The purpose of the course is to develop the knowledge of senior government researchers and technical officials or future candidates for such positions who are engaged in water quality monitoring for the promotion of preventive measures against water pollution. Through participation in this course, the participants will learn methods of planning water quality monitoring and fundamental techniques of water quality analysis as applied to rivers, lakes, reservoirs, and estuaries. Special applications for water-use facilities will also be covered.
- MAIN FEATURES OF CURRICULUM** The course is aimed to introduce methods of planning water quality monitoring, techniques of analyzing water pollutants, and administrative management of monitoring, therefore the course mainly consists of lectures, discussions, demonstration and laboratory exercise, and field-trips. The following major subjects will be covered in the course: (1) environmental administration in Japan, (2) significance of water quality monitoring, (3) water quality monitoring planning, (4) water quality analytical measurement techniques, (5) utilization of analytical data on water quality
- QUALIFICATION OF APPLICANT** (1) university graduate who majored in chemistry, chemical engineering, environmental engineering, environmental science, or equivalent (2) senior government researcher, technical official or future candidates for such positions with more than three years of occupational experience in the field of water pollution research and administration at the agencies of national or local governments, with emphasis on water quality monitoring (3) not less than 25 and not more than 35 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) National Environmental Training Institute, Environment Agency

**ENVIRONMENTAL ENGINEERING  
(AIR POLLUTION CONTROL)**

Jan. 25, '99 - Mar. 14, '99, 9 participants

環境技術(大気保全)

J-98-00329

- 1. PURPOSE** The purpose of the course, from a technical point of view, is to contribute to the improvement of air pollution control policy making in the participating countries. It also covers socio-economic development and welfare aspects by giving technical training through lectures and observation tours on general condition of air pollution control.
- 2. MAIN FEATURES OF CURRICULUM** This course aims to present Japanese experience in this field as a case study for preparation of comparative study and action plan. It mainly covers; (1) administration (2) principles of air pollution subjects (3) planning and countermeasures (4) measurement and assessment (5) comprehensive study
- 3. QUALIFICATION OF APPLICANT** (1) technical official directly responsible for air pollution control administration at central or local governmental organizations and have more than three years of experience (2) university graduate or equivalent
- 4. TRAINING INSTITUTIONS** (1) Hachioji International Training Centre (HITC), JICA (2) Environment Agency (3) Japan Environmental Sanitation Center

**AIR POLLUTION CONTROL**

Aug. 31, '98 - Dec. 13, '98, 9 participants

大気汚染対策

J-98-00382

- 1. PURPOSE** This course is intended for administrative engineers engaged in air pollution control measures in participating countries. Measurement techniques, emission source control techniques, dispersion calculation techniques, management techniques, etc. related to air pollution, all on an advanced level, will be introduced to the participants. It is expected that the course will help upgrade the technical ability of the participants, thus contribute to the prevention of environmental pollution in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japan's experience in the field of Air Pollution Control. The main themes are: (1) fundamentals of air pollution (2) laws and regulations (3) measurement technique (4) emission source control (5) management (6) application of dispersion models (7) planning of master plan related to comprehensive air pollution control
- 3. QUALIFICATION OF APPLICANT** (1) administrative engineer with at least 5 years experience in the administration of air pollution prevention (2) between 30 and 40 years of age (3) university graduates or the equivalent
- 4. TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Global Environment Centre Foundation (3) Environment Division, Environment and Public Health Bureau, Osaka City (4) Osaka City Institute of Public Health and Environmental Science
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

**AIR POLLUTION SOURCE MONITORING  
PRACTICE**

Aug. 31, '98 - Dec. 16, '98, 9 participants

大気汚染源モニタリング実習

J-98-00470

- 1. PURPOSE** The purpose of the training course is to upgrade the technical skills of the personnel who are currently engaged in air pollution monitoring practice.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese experience on air pollution control through air pollution monitoring practice such as ambient air and automobile exhaust gas, in order that the participants acquire the knowledge and skills. The subjects covered in the course are: (1) basic theory on local administration (2) basic theory on environmental engineering and health effect by air pollution (3) administrative framework on air pollution control in Kitakyushu and Japan (4) practical training on ambient air quality monitoring (5) air pollution monitoring by biological methods (6) practical training on air pollution source monitoring (7) simulator operation in coal-fired thermal power station (8) monitoring methods of automobile exhaust gas
- 3. QUALIFICATION OF APPLICANT** (1) engineers with three or more years of experience in air pollution source monitoring and/or equivalent technical knowledge (2) university graduate or equivalent (3) 40 years of age or less
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kitakyushu City Government
- 5. REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

**INDUSTRIAL WASTEWATER TREATMENT  
TECHNIQUE**

Jul. 21, '98 - Nov. 29, '98, 8 participants

産業廃水処理技術

J-98-00398

- 1. PURPOSE** In industrializing process, environmental pollution due to industrial wastewater has become a serious problem. The purpose of this course is to enhance the capabilities of managers and engineers in charge of pollution control so as to take appropriate and cost-effective actions for solving pollution problems.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese experience in dealing with practical industrial wastewater treatment through lectures, discussions, practice, field studies and visits to related factories and industries. The major subjects covered in the course are: (1) introduction to water pollution prevention (2) basic theory of wastewater treatment (3) wastewater analysis (4) automatic control (5) fundamental planning of wastewater facilities (6) design and construction of wastewater treatment facilities (7) maintenance management of wastewater treatment facilities (8) wastewater control in enterprises
- 3. QUALIFICATION OF APPLICANT** (1) either engineer in charge of wastewater treatment in governmental or municipal office, or site manager of these organization with more than three years experience (2) university graduate specialized in chemical, mechanical, electrical or civil engineering or have the equivalent academic background (3) 40 years of age or less
- 4. TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kyushu Institute of Technology (4) Kitakyushu City Government
- 5. REMARKS** (1) A compulsory 20-hour Japanese language course will be conducted prior to the technical training.

**INDUSTRIAL POLLUTION CONTROL  
ENGINEERING**

Jun. 8, '98 - Oct. 14, '98, 8 participants

産業環境対策

J-98-00311

- PURPOSE** Along with industrialization and urbanization, environmental pollution problems have been increasing in developing countries. Therefore, it is indispensable for those countries to develop countermeasures against industrial pollution. The purpose of this course is to enhance the capability of engineers who have experience in handling environmental problems.
- MAIN FEATURES OF CURRICULUM** Participants will attend lectures, training and factory tours to understand past and present environmental problems in Japan, as well as prevention and control measures executed by corporations. Through this course, participants will acquire basic knowledge, information and technology required for planning environmental administrative measures suitable for respective countries, and further, finding solutions for preventing environmental pollution. The major subjects covered in the course are: (1) health effects of environmental pollutants (2) environmental engineering (3) environmental administration (4) environmental pollutants measuring method (5) international cooperation in the field of the environment (6) environmental pollution control measures taken by industries (7) measures for improving the working environment
- QUALIFICATION OF APPLICANT** (1) Engineers with three years' occupational experience or more in the field of industrial pollution control (2) university graduates (faculty of engineering) or have the equivalent academic background (3) 40 years of age or less
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kyushu International Techno-cooperative Association (3) Kyushu Institute of Technology (4) University of Occupational and Environmental Health, Japan (5) Kitakyushu Municipal Government
- REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

**ENVIRONMENTAL RADIOACTIVITY ANALYSIS  
AND MEASUREMENT**

Sep. 8, '98 - Oct. 17, '98, 5 participants

環境放射能分析

J-98-00454

- PURPOSE** The purpose of the course is to give the participants practical knowledge of environmental radioactivity analysis and measurement, and to give them an opportunity to learn the relevant techniques through lectures and practical exercises.
- MAIN FEATURES OF CURRICULUM** The course is aimed to introduce technology of environmental radioactivity analysis and measurement in Japan; therefore, the course mainly consists of lectures, laboratory exercises, and observations. The following major subjects will be covered in the course: (1) basic concepts (2) sampling and pretreatment (3) analysis and measurement of tritium, radioactive strontium and uranium in environmental samples (4) gamma ray spectrometry (5) environmental gamma ray dose measurement (6) others
- QUALIFICATION OF APPLICANT** (1) university/college graduate in science or technology, or equivalent (2) working in an organization concerned with environmental radioactivity analysis and measurement fields
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Chemical Analysis Center (JCAC)

**DOMESTIC WASTEWATER TREATMENT  
TECHNIQUES**

Aug. 24, '98 - Dec. 6, '98, 9 participants

生活排水対策

J-98-00469

- PURPOSE** The purpose of this training course is to upgrade the administrative and managerial skills of technical administrators who are currently engaged in domestic wastewater treatment.
- MAIN FEATURES OF CURRICULUM** The training programme consists of lectures and practical field work on domestic wastewater management. The emphasis is put on providing participants with practical and applicable skills and knowledge as well as Japanese experience to help them to formulate their Action Plans, which are most appropriate for the current status of their respective countries. The subjects covered in the course are: (1) basic theory of local administration (2) basic theory of water quality conservation (3) administrative framework of water pollution control in Kitakyushu and Japan (4) basic exercise in water quality analysis (5) practical training in water supply (6) practical training in sewage/drainage treatment (7) practical training in human excreta treatment (8) practical training in jokaso system (9) outline of domestic refuse treatment (10) outline of river/waterway management in urban area
- QUALIFICATION OF APPLICANT** (1) technical administrator with three or more years of experience in domestic wastewater treatment and/or equivalent technical knowledge (2) university graduate or equivalent (3) 40 years of age or less
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association (3) Kitakyushu City Government
- REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

**NATURE CONSERVATION AND  
NATURAL PARKS MANAGEMENT**

Aug. 25, '98 - Sep. 27, '98, 9 participants

自然保護管理

J-98-00449

- PURPOSE** The purpose of the course is to provide government/technical officials in charge of nature conservation and/or management administration with professional knowledge and techniques required for nature conservation and natural parks management. The course is also intended to introduce the Japanese experience and current conditions in this field and to provide the participants with principles and approaches for problem solution.
- MAIN FEATURES OF CURRICULUM** The course is focused on the introduction of Japanese administration in nature conservation and natural parks management and the information exchange among participants; therefore, the course is mainly conducted in the form of lectures, discussions, and observation tours. The following major subjects will be covered in the course: (1) basic concepts and framework of nature conservation and natural parks management (2) present situation in participating countries (3) techniques for research on nature (4) management of nature
- QUALIFICATION OF APPLICANT** (1) technical official presently in charge of nature conservation and/or management administration in central or local governments with five or more years of experience in this field (2) university graduate or equivalent (3) not more than 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Nature Conservation Bureau, Environment Agency (3) Japan Wildlife Research Center

**ENVIRONMENTAL ADMINISTRATION**

Sep. 29, '98 - Nov. 22, '98, 9 participants

環境行政

J-98-00506

- 1. PURPOSE** The purpose of the course is to introduce through lectures and observation of facilities, the Japanese comprehensive measures on environmental issues to administrators who are in charge of policy making on environmental administration in participating countries. This course also aims to contribute to the progress of environmental administration in developing countries by means of exchanging opinions concerning present conditions and prospects on environmental administration of each country.
- 2. MAIN FEATURES OF CURRICULUM** This course is designed so that the participants would (1) understand the overall Japanese environmental administration including the technical progress, and (2) acquire the knowledge to manage the environmental administration of their countries in consideration of global environmental problems. The main subjects (tentative) are as follows: (1) framework and historical, technological background of Japanese environmental administration (2) economic approach to environmental administration (3) attitude toward global environmental problems both in Japan and other countries (4) environmental impact and development (5) technological field of environmental measurement (observation) (6) development site (observation) (7) present conditions and prospects in developing countries (8) action plan
- 3. QUALIFICATION OF APPLICANT** (1) presently engaged directly in policy-drafting in environmental administration in the governmental or related public organization with experience of at least five years (2) be university graduates or possess the equivalent academic background (3) be preferably aged from 30 to 40
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Global Environmental Department, Environmental Agency (3) Japan Environmental Sanitation Center

**SEMINAR ON OZONE LAYER PROTECTION AND APPLICABLE TECHNIQUES**

Jan. 19, '99 - Mar. 6, '99, 18 participants

オゾン層保護と対策技術

J-98-00447

- 1. PURPOSE** The purposes of this seminar are to assist participating countries in: (1) participating in the "Montreal Protocol on Substances that deplete the Ozone Layer"; and (2) complying with the Protocol by providing the latest information on ozone layer depletion, the Montreal Protocol (including amendments), and Japanese legislative and institutional arrangements.
- 2. MAIN FEATURES OF CURRICULUM** The curriculum consists of the following three parts. (1) lectures (a) overview of ozone layer science (b) environmental impact of increased UV-B radiation (c) outline of the Vienna Convention and the Montreal Protocol, and legislative and institutional arrangements in Japan (d) overview of technologies to reduce ozone layer depleting substances (e) state of development on alternative technologies to reduce consumption of ozone layer depleting substances (f) monitoring of ozone layer (2) field visit (3) presentation and discussions (a) presentation of Country Reports (b) group discussions on the promotion of ozone layer protection in the participating countries
- 3. QUALIFICATION OF APPLICANT** (1) senior staff members who are presently engaged in a government administrative organization and are in charge of ozone layer protection (2) university graduate or equivalent (3) from 35 to 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Japan Industrial Conference for Ozone Layer Protection (JICOP) and (3) Japan Environmental Sanitation Center

**ENVIRONMENTAL IMPACT ASSESSMENT**

May 26, '98 - Jul. 1, '98, 10 participants

環境影響評価

J-98-00476

- 1. PURPOSE** In order to promote sustainable development in the world, it is imperative to execute appropriate environmental impact assessments. The purpose of the course is to transfer fundamental knowledge and technology on EIA (Environmental Impact Assessment) to technical administrators from participating countries through lectures on experiences of conducting EIA in recent years both in Japan and other countries, field trips, and discussions with experts practicing EIA in Japan.
- 2. MAIN FEATURES OF CURRICULUM** The course is focused on introduction of Japanese administration and technology in EIA, activities of international organizations regarding EIA, and information exchange among participants; therefore, the course mainly consists of lectures, discussions, and observation tours. The following major subjects will be covered in the course is: (1) introduction to EIA (2) EIA system and practice in Japan (3) topics related to EIA (wildlife survey, infectious disease, communication techniques) (4) technology for EIA (5) institutional framework for EIA
- 3. QUALIFICATION OF APPLICANT** (1) technical administrator presently engaged in EIA in governmental or related public organization with experience of at least three years (2) university graduate or equivalent (3) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Planning and Coordination Bureau, Environment Agency (3) Overseas Environmental Cooperation Center

**TRAINING COURSE TO DEVELOP NATIONAL INVENTORIES AND STRATEGIES AGAINST CLIMATE CHANGE**

Jan. 11, '99 - Feb. 27, '99, 15 participants

地球温暖化対策コース

J-98-00572

- 1. PURPOSE** The purpose of this course is to assist participating countries to fulfill the obligation of the Framework Convention on Climate Change, Particularly; (1) developing green house gas emissions inventories and (2) providing such information as to develop strategies on climate change
- 2. MAIN FEATURES OF CURRICULUM** The curriculum consists of the following three parts. (1) lectures on (a) outline of the Framework Convention on Climate Change; (b) the points of THE IPCC SECOND ASSESSMENT REPORT; (c) Japanese actions to address global warming; (d) outline of IPCC guideline on initial communications for main-Annex I Parties; (e) methodologies to calculate GHG emissions; (f) various kind of policies and measures and (g) mitigation measures against global warming in Japan (2) field trip and study visit (3) presentation and discussions (a) presentation of Country Reports (b) group discussions on the promotion of measures against global warming in the participating countries
- 3. QUALIFICATION OF APPLICANT** (1) officials who are presently working in a government administrative organization and are in charge of global warming issue (2) university graduate or equivalent (3) from 35 to 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Institute for International Cooperation (IFIC), JICA (2) Japan Meteorological Association

## PRACTICAL STATISTICS II

Sep. 27, '98 - Mar. 20, '99, 33 participants

統計実務 II

J-98-00060

- 1. PURPOSE** This course is focused on the training needs of official statisticians in government and is intended to contribute to the strengthening of national statistical offices of the developing countries in the ESCAP region.
- 2. MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants (for first three months) and individual project work (for latter three months). The common subjects concentrate on the following methodological aspects of statistics: (1) data collection (2) summarization and presentation of data (3) interpretation, analysis and dissemination. For the project work, each participant is to choose one of the following topics, and write a report on it for presentation at a seminar. They should choose a topic which is related to official statistics of their country. (a) demographic analysis (b) economic statistics and applied analysis (c) national accounts (d) statistical methods and sampling
- 3. QUALIFICATION OF APPLICANT** (1) university graduate specialized in statistics, economics or sociology or equivalent (2) over 25 but under 35 years of age (3) have a sufficient knowledge of basic mathematics
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistical Institute for Asia and the Pacific (SIAP)
- 5. REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

## AUTOMATIC DATA PROCESSING FOR TRAINERS

May 5, '98 - Jul. 12, '98, 20 participants

研修指導官のためのADP

J-98-00254

- 1. PURPOSE** This course is designed for practicing statisticians who have some background in computing and or are likely to become involved in the training of others in the use of computer software packages for data processing. The course aims at increasing the participants' depth of knowledge in selected software packages, developing their presentation skills and producing course plants that they can use upon return to their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** The curriculum consists of the following major subjects. (1) introduction to the various software packages available for different phases of data processing (2) principles involved in structuring courses in automatic data processing (3) general principles and techniques of training (4) use of specific software packages (presentation by participants)
- 3. QUALIFICATION OF APPLICANT** (1) middle level statisticians with some computing experience who are expected to be trainers in statistical computing (2) under 40 years of age (3) university graduate in statistics or equivalent
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Statistical Institute for Asia and the Pacific (SIAP)
- 5. REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

## ANALYSIS AND INTERPRETATION OF STATISTICS

Jul. 14, '98 - Sep. 19, '98, 10 participants

統計の解析及び解釈

J-98-00567

- 1. PURPOSE** This course is designed for middle level statisticians engaging in data production, and in particular those who analyze, interpret and prepare statistical reports for policy makers, planners and other decision makers. The course aims at assisting countries in strengthening their statistical capabilities; specifically in analysis and interpretation of statistics including report writing and presentation techniques.
- 2. MAIN FEATURES OF CURRICULUM** Curriculum consists of the following subjects: (1) introduction to statistical analysis (2) methods of statistical analysis (3) demographic analysis (4) workshops/seminars (5) statistical computing (6) project work
- 3. QUALIFICATION OF APPLICANT** (1) have a basic knowledge of statistics (2) have a university degree in either statistics, mathematics, economics, sociology or have passed the six months General or Practical Statistics Course of SIAP or have similar training (3) have at least five years experience in population and related work or in the analysis of population and demographic topics; (4) over 30 and under 45 years of age (5) have sufficient knowledge of statistical computing (in particular, applicants should have basic knowledge of DOS, and have some experience with at least one word processing package, and preferably one tabulation and/or graphics package)
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) United Nations Statistical Institute for Asia and the Pacific (SIAP)
- 5. REMARKS** This course is conducted according to the agreement between the Government of Japan and the United Nations, and organized mainly for ESCAP countries.

## ELECTRONICS ENGINEERING (MICROCOMPUTER)

Nov. 9, '98 - Feb. 17, '99, 10 participants

エレクトロニクス技術

J-98-00431

- 1. PURPOSE** This course is designed to provide technical knowledge and practical experience in digital logic, microcomputer hardware and software design.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on practical experience by participants. It mainly covers: (1) Assembly Language for Microprocessor (2) Autonomous Car (Design) with Optical Sensors and Motors (3) C Language and HTML Language (4) Application of Network and Multimedia
- 3. QUALIFICATION OF APPLICANT** (1) be able to operate DOS (Disc Operating System) and Text Editor of personal computers (2) be a design or development engineer who have experienced more than three years of developing and designing software or hardware for personal computer or microprocessor (3) have experience in developing programs by C-language or assembly language (4) have experience in designing and developing digital circuits or print circuited board (5) be over 25 and under 30 years of age
- 4. TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Electronics Center

**OFFICE AUTOMATION PROMOTION**

Aug. 3, '98 - Oct. 4, '98, 9 participants

OA化推進

J-98-00485

- PURPOSE** Even though it may be desirable to automate office work through the use of computers and other equipment, a computer system alone will not provide excellent results if the present methods of conducting business transactions do not change. That is why this course seeks to deepen an understanding of new office work systems by re-evaluating present systems and planning methods before proceeding to the use of computers and automation. At the same time, the course will be interwoven with lectures, practice, and field trips dealing with the new way of thinking about and advancing with the use of computers in office automation. This course will foster capable staff in the counterpart organization at the JICA's overseas offices, with leadership qualities who will be able to reform and promote operations in their own countries.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on report presentation and discussions by participants, introduction of Japanese experience and basic theories of office automation. The main themes are: (1) concept and procedures for promotion of office automation in Japanese administration (2) how to advance record management (3) how to advance business system design (4) how to advance system planning (5) how to advance on-line system design (6) design and actual situation of data base systems (7) office LAN (office communication) (8) how to advance project management (9) end user computing (10) system inspection and security (11) case studies (company visits) (12) panel discussion (human resource development in promotion of office automation)
- QUALIFICATION OF APPLICANT** (1) university graduates or equivalent (2) employed by a JICA counterpart institution of their country as a project leader in office automation promotion, that is, as an employee engaged in the improvement of work procedures across a range of operational areas and the development of new procedural systems and structures through the effective use of office automation and information systems. Exceptions: (a) not be administrators in computer (information system) departments, specializing in operations associated with computers, SE's (system engineers), or programmers (b) not necessary to be administrators with deep technical knowledge - but advisable to possess at least basic knowledge of personal computers know-how to operate "Database Management System" and "Spreadsheet" software (3) under 45 years of age
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Kansai Institute of Information Systems
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

**COMPUTER (SYSTEM ANALYST (A))**

Apr. 16, '98 - Aug. 2, '98, 12 participants

コンピュータ(システムアナリスト(A))

J-98-00562

- PURPOSE** This course is designed to train persons who are presently or will be system analysts in charge of planning, analyzing, designing and evaluating information system.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hand-on exercise and workshops. The main themes are: (1) Business Analysis (2) Data Communication System Introduction (3) LAN Design Introduction (4) WAN Design Introduction (5) GUI Builder (6) Application Programme Design (7) Client/Server System Design (8) CASE Introduction (9) Structured System Analysis (10) Structured System Design (11) Database System Design (12) Reliability Design (13) Performance Design (14) Test Planning (15) Project Management (16) System Audit (17) CASE Study (18) Project Management Simulation (19) Special Lecture (20) Advanced Computer Technology (21) Presentation Training (22) Group Ware Introduction.
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have 3 to 7 year's of experience in system development and programming (3) person who will be in charge of system analysis, (4) under 35 years of age.
- TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER (DP DIVISION MANAGER)**

Aug. 27, '98 - Nov. 11, '98, 12 participants

コンピュータ(情報処理部門管理者)

J-98-00555

- PURPOSE** This course is designed to train persons who are presently managers under one year experience in the information processing division or who are appointed to the manager of the information processing division. This course provides the skills necessary for information processing system planning and its operation, and management of information processing division.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercises and observation tours. The main themes are: (1) Business analysis (2) DSS (Decision Support System) (3) Client/Server System Design (4) Test Planning (5) Project Management (6) DP Division Management (7) System Audit (8) CASE Study (9) Project Management Simulation (10) Advanced Computer Technology (11) Special Lecture.
- QUALIFICATION OF APPLICANT** (1) person with over three years experience in information processing system development and/or maintenance (2) presently a manager and have less than one year experience of data processing division management or personnel who are appointed to the manager of information processing division (3) university graduate or equivalent (4) 30-45 years of age
- TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER (SYSTEM ANALYST (B))**

Nov. 26, '98 - Mar. 20, '99, 12 participants

コンピュータ(システムアナリスト(B))

J-98-00563

- PURPOSE** This course is designed to train persons who are presently or will be system analysts in charge of planning, analyzing, designing and evaluating information system.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hand-on exercise and workshops. The main themes are: (1) Business Analysis, (2) Data Communication System Introduction (3) LAN Design Introduction (4) WAN Design Introduction (5) GUI Builder (6) Application Programme Design (7) Client/Server System Design (8) CASE Introduction (9) Structured System Analysis (10) Structured System Design (11) Database System Design (12) Reliability Design (13) Performance Design (14) Test Planning (15) Project Management (16) System Audit (17) CASE Study (18) Project Management Simulation (19) Special Lecture (20) Advanced Computer Technology (21) Presentation Training (22) Group Ware Introduction.
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have 3 to 7 year's of experience in system development and programming (3) person who will be in charge of system analysis (4) under 35 years of age.
- TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.



**COMPUTER (NETWORK ENGINEER (A))**

May 21, '98 - Sep. 25, '98, 12 participants

コンピュータ(ネットワーク技術者(A))

J-98-00564

- 1. PURPOSE** This course is designed to train the persons who are or will be the net work engineer in charge of designing, installing and operating network including LAN and WAN which are indispensable for information processing system, and familiar with advanced computer technology such as the internet.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hands-on exercise and workshops. The main themes are; (1) Data Communication System Introduction (2) LAN Design Introduction (3) WAN Design Introduction (4) Client/Server System Design (5) Reliability Design (6) System Response Time Calculation (7) UNIX Networking Functions (8) PC Networking Functions (9) Network Operating System Fundamentals (10) Network OS Interconnection (11) Internet Introduction (12) Test Planning (13) PC OS Introduction (14) UNIX Introduction (15) Network Management (16) LAN Analyzing Usage (17) Communication Network Design Using Simulation (18) Special Lecture Advanced Computer Technology, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have 1 to 3 year experience in system development and maintenance (3) have less than 3 year experience or will be in charge of designing, installing, and maintaining of network (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER (NETWORK ENGINEER (B))**

Oct. 22, '98 - Mar. 7, '99, 12 participants

コンピュータ(ネットワーク技術者(B))

J-98-00565

- 1. PURPOSE** This course is designed to train the persons who are or will be the net work engineer in charge of designing, installing and operating network including LAN and WAN which are indispensable for information processing system, and familiar with advanced computer technology such as the internet.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hands-on exercise and workshops. The main themes are; (1) Data Communication System Introduction (2) LAN Design Introduction (3) WAN Design Introduction (4) Client/Server System Design (5) Reliability Design (6) System Response Time Calculation (7) UNIX Networking Functions (8) PC Networking Functions (9) Network Operating System Fundamentals (10) Network OS Interconnection (11) Internet Introduction (12) Test Planning (13) PC OS Introduction (14) UNIX Introduction (15) Network Management (16) LAN Analyzing Usage (17) Communication Network Design Using Simulation (18) Special Lecture Advanced Computer Technology, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have 1 to 3 years ofss experience in system development and maintenance (3) have less than 3 years of experience or will be in charge of designing, installing, and maintaining of network (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER  
(ONLINE DATABASE SYSTEM DESIGNER)**

May 7, '98 - Oct. 4, '98, 12 participants

コンピュータ(オンラインデータベースシステム設計者) J-98-00559

- 1. PURPOSE** This course is designed to train the personnel who is in charge of online database system development which requires realtime processing and high reliability based on UNIX server.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hands-on exercise and workshops. The main themes are; (1) CASE Introduction (2) Structured System Analysis (3) Structured System Design (4) Data Communication System Introduction (5) LAN Design Introduction (6) WAN Design Introduction (7) System Response Time Calculation (8) Client/Server System Design (9) Distributed DB Introduction (10) UNIX Database System Usage (11) Database System Design (12) UNIX Database Operation and Administration (13) UNIX Networking Functions (14) UNIX Database Tuning (15) Online Transaction Processing Introduction (16) C Programming (17) UNIX Shell-programming (18) UNIX Client Application Programming (19) UNIX Database Definition (20) UNIX Server Database Programming (21) Test Planning (22) Project Management (23) System Development Workshop (24) Special Lecture, Advanced Computer Technology, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have 1 to 3 year experience in system development and more than 3 year experience in programming, also have more than 1 year experience in programming using C language (3) have experience in developing UNIX system (4) be going to be engaged in realtime system development based on UNIX (5) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER (INSTRUCTOR)**

Oct. 8, '98 - Mar. 31, '99, 12 participants

コンピュータ(情報処理技術インストラクタ)

J-98-00556

- 1. PURPOSE** This course is designed to train persons who are or will be instructor in charge of training information processing personnel. The participants are expected to be able to design and develop system for personal computer, to instruct for information processing programme, and to plan for information processing course and develop subject materials.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. Regarding instruction techniques, participants will learn subjects such as curriculum/ design on courses, subject material development and presentation through lectures and exercises. Regarding system development, participants will learn basic skills for system development such as system design, programming, and system evaluation through lectures and exercises.
- 3. QUALIFICATION OF APPLICANT** Applicants should (1) be university graduates or equivalent (2) have one to three years of experience in system development and more than one year experience in programming (3) be person who will be an instructor (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER  
(UNIX SERVER SYSTEM DESIGNER (A))**

May 7, '98 - Oct. 12, '98, 12 participants

コンピュータ(UNIXサーバシステム設計者(A)) J-98-00560

- 1. PURPOSE** This course is designed to train persons who are or will be engaged in design and development of client-server system under UNIX environment.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are: (1) Data Communication System Introduction (2) LAN Design introduction (3) WAN Design Introduction (4) CASE Introduction (5) Structured System Analysis (6) Structured System Design (7) System Performance Design (8) Client/Server (9) Distributed DB Introduction (10) UNIX Database System Usage (11) Database System Design (12) UNIX Database Operation and Administration (13) UNIX Shell-Programming (14) UNIX Client Application Programming (15) UNIX Database Definition (16) LAN System Workshop (17) Network Operating Systems Fundamentals (18) Network OS Mutual Connection (19) Internet Introduction (20) Test Planning (21) PC. OS Introduction (22) UNIX Introduction (23) Project Management (24) System Development Workshop (25) Special Lecture (26) Advanced Computer Technology (27) Presentation Training (28) Group ware Introduction.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have one to three year's of experience in system development and more than three year's programming experience (3) nominated by their government to be in charge of system development under UNIX environment (4) under 35 years of age.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER  
(UNIX SERVER SYSTEM DESIGNER (B))**

Oct. 8, '98 - Mar. 26, '99, 12 participants

コンピュータ(UNIXサーバシステム設計者(B)) J-98-00561

- 1. PURPOSE** This course is designed to train persons who are or will be engaged in design and development of client-server System under UNIX environment.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. The main themes are: (1) Data Communication System Introduction (2) LAN Design introduction (3) WAN Design Introduction (4) CASE Introduction (5) Structured System Analysis (6) Structured System Design (7) System Performance Design (8) Client/Server (9) Distributed DB Introduction (10) UNIX Database System Usage (11) Database System Design (12) UNIX Database Operation and Administration (13) UNIX Shell-Programming (14) UNIX Client Application Programming (15) UNIX Database Definition (16) LAN System Workshop (17) Network Operating Systems Fundamentals (18) Network OS Mutual Connection (19) Internet Introduction (20) Test Planning (21) PC. OS Introduction (22) UNIX Introduction (23) Project Management (24) System Development Workshop (25) Special Lecture (26) Advanced Computer Technology (27) Presentation Training (28) Group ware Introduction.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have one to three year's of experience in system development and more than three year's programming experience (3) nominated by their government to be in charge of system development under UNIX environment (4) under 35 years of age.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER (PC SERVER SYSTEM DESIGNER (A))**

Apr. 16, '98 - Aug. 28, '98, 12 participants

コンピュータ(PCサーバシステム設計者(A)) J-98-00557

- 1. PURPOSE** This course is designed to train persons who are or will be designers and developers of client-server system using personal computer network. The participants are expected to be able to use hardware and software for computer network, to design and develop high quality and large scale client-server system using C language or 4GL based on requirement, and to evaluate functions and quality of system.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. Though lectures and exercises, participants will learn subjects such as system analysis/design, LAN design, system evaluation and programming. C language and 4GL will be used in programming subjects. Though system development workshop, participants will understand subjects deeply and acquire practical skills.
- 3. QUALIFICATION OF APPLICANT** Applicants should (1) be university graduates or equivalent (2) have one to three year experience in system development and more then three year experience in programming (3) be persons who will be engaged in developing system using personal computer network (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER (PC SERVER SYSTEM DESIGNER (B))**

Nov. 5, '98 - Mar. 26, '99, 12 participants

コンピュータ(PCサーバシステム設計者(B)) J-98-00558

- 1. PURPOSE** This course is designed to train persons who are or will be designers and developers of client/server system using personal computer network. The participants are expected to be able to use hardware and software for computer network, to design and develop high quality and large scale client/server system using C language or 4GL based on requirement, and to evaluate function and quality of system.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, discussions, hands-on exercise, workshops and observation tours. Though lectures and exercises, participants will learn subjects such as system analysis/design, LAN design, system evaluation and programming. C language and 4GL will be used in programming subjects. Though system development workshop, participants will understand subjects deeply and acquire practical skills.
- 3. QUALIFICATION OF APPLICANT** Applicants should (1) be university graduates or equivalent (2) have one to three year experience in system development and more than three year experience in programming (3) be person who will be engaged in developing system using personal computer network (4) be under thirty-five years old.
- 4. TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**COMPUTER (PC APPLICATION DESIGNER)**

Aug. 6, '98 - Nov. 22, '98, 12 participants

コンピュータ(PCアプリケーション設計者)

J-98-00566

1. **PURPOSE** This course is designed to train the persons who are or will be able to design and develop small scale system using personal computer.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on lectures, computer exercise, hands-on exercise and workshops. The main themes are: (1) Data Communication System Introduction (2) LAN Design Introduction (3) CASE Introduction (4) Structured System Analysis (5) Structured System Design (6) Database System Design (7) PC Database Usage (8) ACCESS Usage (9) PC Networking Functions (10) Network Operating Systems Fundamentals (11) Algorithmic Construction (12) Test Planning (13) PC-OS Introduction (14) Project Management (15) PC System Development Workshop (16) Special Lecture, Advanced Computer Technology, etc.
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) have 1 to 3 years of experience in programming (3) be persons who will be engaged in developing system using personal computer network (4) be under thirty-five years old.
4. **TRAINING INSTITUTIONS** (1) Okinawa International Centre (OIC), JICA (2) Nippon Telegraph & Telephone Corporation (NTT) (3) Fujitsu Ltd.

**WATER SUPPLY ENGINEERING II**

May 5, '98 - Jul. 17, '98, 10 participants

上水道施設 II

J-98-00100

1. **PURPOSE** The purpose of this course is to provide participants with an opportunity to broaden theoretical and practical knowledge of water supply systems with surface water resource and sanitary engineering systems including its planning, designing, operation and maintenance through lectures, laboratory practice and observations.
2. **MAIN FEATURES OF CURRICULUM** This course is designed to cover the following themes. (1) water supply planning (2) waterworks management (3) water purification and quality (4) pipeline (5) mechanical and electrical instrumentation
3. **QUALIFICATION OF APPLICANT** (1) be presently in a management position or a senior engineer in the field of water supply with surface water resource in the relevant organization (2) be university graduate from faculty of engineering or equivalent academic background
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Water Works Association (JWWA)

**WATERWORKS ENGINEERING**

Jun. 15, '98 - Sep. 12, '98, 8 participants

水道技術者養成

J-98-00573

1. **PURPOSE** The course is designed to provide participants with basic knowledge and comprehensive technology regarding overall water supply, including water resources, intake, treatment, and distribution facilities, and water service installations. It also provides information on the integrated methodology of planning and technology required for operation and maintenance. The final goal of the course is to contribute to improving and promoting the water supply in developing countries, ensuring a safe and potable drinking water supply for communities.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on technical exercises. It mainly deals with: (1) water leak prevention (2) water quality control (3) water treatment facilities (4) water distribution planning and pipe network (5) design and construction management (6) water service installations
3. **QUALIFICATION OF APPLICANT** (1) a university graduate or a person who has equivalent technical qualifications in this field, and has more than three years of practical experience (2) a technical official in charge of waterworks in central or provincial government, or in local bodies (3) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sapporo Waterworks Bureau

**SEWAGE WORKS ENGINEERING II**

Aug. 18, '98 - Nov. 11, '98, 11 participants

下水道技術 II

J-98-00167

1. **PURPOSE** The purpose of the course is to provide participants with a basic knowledge of sewage collection, urban drainage systems, sewage treatment and disposal, and sludge handling, as well as to furnish them so that the participants would be able to play their greater role for further progress and advancement of sewage works in their respective countries.
2. **MAIN FEATURES OF CURRICULUM** This course covers the following themes: (1) basic theory of sewerage and sewage purification (2) process and methods for planning and designing sewers, pumping stations, and sewage and sludge treatment facilities (3) rough master plan for a sewage systems (4) pretreatment of industrial wastewater (5) significance and methods of water quality analysis (6) advanced sewage and sludge treatment technology
3. **QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with more than three years of practical experience (2) senior technical officer in charge of sewage works in central or provincial government, or in government related organization (3) under 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Sewerage and Sewage Purification Department, City Bureau, Ministry of Construction (3) Japan Sewage Works Agency
5. **REMARKS** Country Reports will be highly utilized both for the selection of participants and for the country report presentation.

**OPERATION AND MAINTENANCE OF SEWERAGE FACILITIES**

Aug. 10, '98 - Oct. 12, '98, 6 participants

下水道維持管理

J-98-00585

- PURPOSE** The course is designed for technical administrative officials engaged in providing sewerage works in developing countries. The purpose of this course is to give them training in the maintenance of sewers and wastewater treatment plants, utilization of resources (i. e., treated wastewater and sludge), and control of water pollution due to industrial wastewater, and thereby to improve their capability of managing and carrying out sewage works.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on practice and exercise concerning operation and maintenance of sewerage facilities. It mainly deals with; (1) basic concept of sewerage system (2) maintenance of sewers (3) management of wastewater treatment plants (4) utilization of treated wastewater and sludge (5) controlling water pollution due to industrial wastewater
- QUALIFICATION OF APPLICANT** (1) be a university graduate or equivalent in this field, and have more than three years of practical experience (2) be a senior technical officer in charge of sewage works in central or provincial government, or in local bodies (3) be a under 40 years of age
- TRAINING INSTITUTIONS** (1) Hokkaido International Centre, Sapporo (HICS), JICA (2) Sewerage Bureau, City of Sapporo

**SOLID WASTE MANAGEMENT AND NIGHT SOIL TREATMENT II**

May 19, '98 - Jul. 24, '98, 10 participants

廃棄物処理 II

J-98-00111

- PURPOSE** The main purpose of the course is to provide participants with knowledge and techniques required for solid waste management and night soil treatment (excluding sewerage system), particularly those for domestic and industrial solid waste management, through lectures, discussions, laboratory practice and field studies. The lectures are intended to provide the participants not only with knowledge and techniques but also principles and approaches to problem solving. The course is also intended to introduce recent aspects of solid waste management in Japan and its international technical cooperation activities in this field.
- MAIN FEATURES OF CURRICULUM** The following major subjects will be covered in this course, mainly by means of lectures: (1) problem identification and national/master plan elaboration (2) solid waste management (a) collection and transportation (b) treatment and disposal (incineration, sanitary landfills) (3) industrial waste management (especially hazardous waste) (4) night soil treatment (5) institutional development for solid waste management service (6) solid waste management/night soil treatment in developing countries
- QUALIFICATION OF APPLICANT** (1) technical official presently in charge of solid waste management (domestic and industrial solid waste management and night soil treatment excluding sewerage system) in central or provincial governments or in local bodies, with three or more years of experience in this field (2) under 50 years of age (3) university graduate or equivalent
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Environmental Health Bureau, Ministry of Health and Welfare (3) Japan Environmental Sanitation Centre

**WASTE MANAGEMENT TECHNIQUE**

Jan. 11, '98 - Apr. 18, '98, 6 participants

廃棄物処理技術

J-98-00487

- PURPOSE** The purpose of this course is to upgrade the administrative and managerial skills of personnel who are currently engaged in solid waste management, in order to deal with environmental problems due to the rapid progress of urbanization and industrialization in participants' countries.
- MAIN FEATURES OF CURRICULUM** The training programme consists of lectures, practice and study tours on solid waste management. The emphasis is put on providing participants with practical and applicable skills and knowledge as well as Japanese experience to help them to formulate their Action Plans, which are most appropriate for the current status of their respective countries. The subjects covered in the course are: (1) basic theory of local administration (2) household refuse treatment (3) strategies for public awareness building on solid waste management (4) night soil treatment (5) administrative framework of industrial solid waste management (6) industrial waste processing (7) solid waste management in local governmental enterprise (8) hazardous wastes management (9) landfilling of solid wastes (10) ocean dumping of wastes (11) medical waste management (12) study tours
- QUALIFICATION OF APPLICANT** (1) technical administrator with three years or more experience in solid waste management and/or equivalent technical knowledge (2) university graduate or equivalent (3) not more than 40 years of age
- TRAINING INSTITUTIONS** (1) Kyushu International Centre (KIC), JICA (2) Kitakyushu International Techno-cooperative Association
- REMARKS** (1) A compulsory 25-hour Japanese language course will be conducted prior to the technical training.

**MODERNIZATION OF CARGO TRANSPORT (PHYSICAL DISTRIBUTION)**

Apr. 6, '98 - Jun. 15, '98, 8 participants

物流近代化

J-98-00388

- PURPOSE** To provide with opportunities to study plans, techniques, and information about modernization of physical distribution, especially on land transport such as truck transport, packaging, storing, handling, transport and information management.
- MAIN FEATURES OF CURRICULUM** The emphasis is put on lectures and observation to cargo transport facilities. The main topics of the lectures are (1) introduction of physical distribution in Japan (2) administration of physical distribution; in the observation participants will observe the fundamental activities of physical distribution such as Cargo Handling, Packaging, Storage, Transportation, Distribution Processing and Information & Communication. At the end of the training, participants will present an applicable action plan for their respective countries.
- QUALIFICATION OF APPLICANT** (1) currently engaged in the field of cargo transport (especially land transport) at governmental or public organizations, with three '3' years or more of experience in this field (2) not engaged in the field of road construction and management, traffic survey and control and passenger transport (3) university graduates or equivalent (4) between twenty-eight '28' and forty five '45' years of age
- TRAINING INSTITUTIONS** (1) Nagoya International Training Centre (NITC), JICA (2) Transport Policy Bureau, Ministry of Transport (3) Chubu District Transport Bureau, Ministry of Transport (4) Industrial Research Institute, Aichi Prefectural Government (5) private enterprises
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks (45 hours).

**SEMINAR ON HIGHWAY CONSTRUCTION II**

Sep. 24, '98 - Nov. 13, '98, 14 participants

ハイウェイセミナー II

J-98-00103

- 1. PURPOSE** The seminar is designed to improve the knowledge of personnel who are currently engaged in highway construction, design, and maintenance through the introduction of road construction technology developed in Japan.
- 2. MAIN FEATURES OF CURRICULUM** The most important part of the seminar is Country Report presentation and discussion for comparative study. Another major part is introduction of Japanese systems, situations and cases as follows. (1) present situation of roads and road transportation, which includes traffic safety, disaster prevention, new transportation systems, etc. (2) outline of special large-scale projects in which the most advanced techniques in this field are concentrated (3) road environmental problems and measures for protecting the living environment along highways (4) technical standards for design of highways, bridges, and pavements
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) engineer with more than two years of experience in the field of highway construction, design, and maintenance (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Bureau, Ministry of Construction
- 5. REMARKS** Country Reports will be highly utilized both for the selection of participants and for the Country Report presentation.

**ADMINISTRATION SYSTEM FOR MOTOR VEHICLE**

Jan. 19, '99 - Feb. 26, '99, 6 participants

自動車行政制度

J-98-00323

- 1. PURPOSE** The purpose of the course is to provide participants with both comprehensive and practical knowledge of administrative systems for motor vehicle, and thus to contribute to creating the most suitable administrative system for motor vehicle in their respective countries.
- 2. MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures and observations. The following are the major subjects to be covered in the course. (1) administrative systems of motor vehicle and related laws and regulations in Japan (a) safety and pollution control regulations (b) maintenance, repair and inspection systems (c) registration system (d) road transport business regulations (e) insurance system (f) driver's licence system, etc. (2) motor vehicle safety and pollution control engineering (3) motor vehicle standards and production activities (4) business and services for traffic safety
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) be engaged in the field of administration, preferably administrator for policy and system making on motor vehicle inspection, registration and control in governmental or public organizations. Automotive engineers for design, production and/or maintenance are strictly not requested to apply (3) under 50 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Transport Bureau, Ministry of Transport (3) Automobile Inspection & Registration Association (AIRA)

**RAILWAY MANAGEMENT PLANNING**

May 12, '98 - Jun. 14, '98, 9 participants

鉄道経営計画

J-98-00462

- 1. PURPOSE** The purpose of this course is to share a wide range of knowledge about how railway management has been improved in Japan with participants in charge of railway management in developing countries.
- 2. MAIN FEATURES OF CURRICULUM** This course consists of lectures, observation of railway enterprises and field trip mainly focusing on the following area: (1) outline of Japanese railway (its history, Japanese National Railway Reform, Related law, fare and charge, and subsidies and aids) (2) Railway management (JR Group companies, private railway companies and third sector)
- 3. QUALIFICATION OF APPLICANT** (1) be in a supervising position in charge of planning and/or management of railway business (a person who belongs to the governmental organization supervising railway enterprises or belongs to the enterprises managing only urban transport services such as subways or LRT are not qualified) (2) have more than five years of practical experience after graduation from university (3) university graduate or equivalent (4) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Railway Bureau, Ministry of Transport (3) JR Central (4) Japan Railway Technical Service

**MARITIME SEARCH AND RESCUE OPERATION AND MARITIME DISASTER PREVENTION**

Aug. 17, '98 - Nov. 28, '98, 7 participants

救難防災

J-98-00343

- 1. PURPOSE** The purpose of this course is to provide the participants with an administrative concept and actual ways of managing maritime search and rescue and maritime disaster prevention through lectures, practices and observations. The training will contribute to further promotion of the friendship and cooperation between the participating countries and Japan.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of comprehensive knowledge on the following subjects through lecture, practice and field trip. The main themes are: (1) lectures (a) organization and function of JMSA (Japan Maritime Safety Agency) (b) international maritime search and rescue activities under the International Convention on Maritime Search and Rescue, 1979 (c) maritime search and rescue systems in Japan (d) maritime search and rescue operations (e) case studies of maritime search and rescue operations (f) method on rescue of capsized and grounded ships (g) Global Maritime Distress and Safety System (GMDSS) (h) information collection system of JMSA (i) prevention of marine pollution system (j) JMSA's activities on marine disaster prevention (2) Practice (a) experimental sail on a JMSA's fire fighting vessel or craft (b) work on marine disaster prevention (c) experimental sail on a JMSA's patrol vessel (d) experimental fly in a JMSA's aircraft (observation of Special Rescue Station) (e) rescue training including special rescue (3) observation and study tour (a) training of Special Rescue Team and patrol vessels with improved rescue capability of JMSA
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than five years in the field of marine disaster prevention and, search and rescue operation (2) presently engaged in the above-mentioned field (3) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Maritime Safety Agency (3) The 5th Regional Maritime Safety Headquarters (4) Maritime Safety Academy (5) Disaster Prevention Training Centre
- 5. REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for about several days.

**AIDS TO MARINE NAVIGATION II**

Aug. 20, '98 - Oct. 24, '98, 7 participants

航路標識 II

J-98-00148

- PURPOSE** The purpose of the training course is to provide participants with the comprehensive and latest theory, knowledge and techniques of systems of aids to marine navigation in Japan, thus contributing to the improvement of the managerial and technological level of aids to navigation in each participating country, and to promote cooperative relations among the participating countries and Japan in carrying out their duties of providing aids to marine navigation.
- MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on introduction of Japanese system and basic knowledge and techniques. The following themes will be covered in the course. (1) administration of aids to marine navigation and related activities in Japan (2) systems of aids to marine navigation (3) aids to marine navigation: theories and system engineering (4) observations (maritime transportation in Tokyo Bay, Vessel Traffic Service Center etc.) (5) practice (visual aids equipment, power sources, aids to navigation office)
- QUALIFICATION OF APPLICANT** (1) technical college graduates or the equivalent with sufficient knowledge in the field of engineering (civil, mechanical, electrical and/or electronics engineering) (2) engaged in the field of system planning, operation and/or maintenance of aids to navigation (3) under 45 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Aids to Navigation Department, Maritime Safety Agency (3) Japan Association for Aids to Navigation (JAAN)

**MARINE TECHNIQUE (NAVIGATOR)**

Jun. 29, '98 - Dec. 5, '98, 5 participants

航海技術(航海士)

J-98-00379

- PURPOSE** The aim of the course is to hand over to the participants marine technique and experience which Japan has long accumulated, and by doing so to make them conscious of the status quo of higher marine technology and management. Furthermore, the participants, through their own training, are to acquire the knowledge and techniques concerning seamen's training methods, and upon return to their respective countries, are expected to spread their fruits so gained among their successors.
- MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants, seminar at laboratory (optional subjects), on-board practice and observation tours. Common Subjects (10 weeks) (1) terrestrial and celestial navigation (2) nautical instruments (3) ship maintenance (4) ship maneuvering and marine accident (5) ship cargo handling (6) safety management (7) watch keeping (8) naval architecture (9) marine meteorology (10) navigational regulations (11) maritime law (12) ship engineering (13) computer mathematics (14) computer and information science (15) computer practice (16) fundamentals of physical science (17) fundamentals of chemical science (18) fundamentals of maritime management (19) bridge simulator training (20) radar simulator training (21) practice on board. Seminar in laboratory (optional subjects) (4 weeks) (1) simulator training (2) nautical instruments (3) weather and radar navigation (4) navigational regulations and maritime law (5) loading calculation
- QUALIFICATION OF APPLICANT** (1) in possession of the certificate of Third of higher Grade Maritime Officer (Officer) with more than one year of seetime, or those who have the equivalent knowledge and experience engaged in official affairs or education for maritime with more than one year (2) male, between 25 and 35 years of age (3) presumed to contribute to fostering mercantile officials or instructors who will play a leading role in this field in their respective countries
- TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Marine Technical College
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hours).

**MARINE TECHNIQUE (ENGINEER)**

Jun. 29, '98 - Dec. 5, '98, 5 participants

航海技術(機関士)

J-98-00380

- PURPOSE** The aim of the course is to hand over to the participants the marine technique and experience which Japan has long accumulated, and by so doing to make them conscious of the status quo of a higher marine technology and management. Furthermore, the participants, through their own training, are to acquire the knowledge and techniques concerning the seamen's training methods, and upon return to their respective countries, are expected to spread their fruits so gained among their successors.
- MAIN FEATURES OF CURRICULUM** This course consists of common subjects for all participants, seminar at laboratory (optional subjects), on board practice and observation tours. Common subjects (12 weeks) (1) boiler (2) steam turbine engine (3) diesel engine and gas turbine (4) propeller and shafting (5) auxiliary machinery (6) electrical engineering (7) automatic control (8) instrumentation (9) fuel oil and lubricant (10) thermodynamics, hydrodynamics, mechanics and materials (11) computer (12) marine propulsion system based on energy flow (13) engine room simulator training (14) maritime laws and international conventions (15) ship's survey inspection (16) safety management (17) practice on board. Seminar in laboratory (optional subjects) (2 weeks) (1) steam plant (2) internal combustion engine (3) electrical engineering and electronics (4) auxiliary machineries (5) automatic control (6) instrumentation (7) information engineering (8) engine room simulator (9) propulsion
- QUALIFICATION OF APPLICANT** (1) in possession of the certificate of Third of higher Grade Maritime Officer (Engineer) with more than one year of seetime, or those who have the equivalent knowledge and experience engaged in official affairs or education for maritime with more than one year (2) male, between 25 and 35 years of age (3) presumed to contribute to fostering mercantile officials or instructors who will play a leading role in this field in their respective countries
- TRAINING INSTITUTIONS** (1) Hyogo International Center (HIC), JICA (2) Marine Technical College
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for three weeks (75 hours).

**DEVELOPMENT OF CONTAINER TERMINAL**

Jan. 11, '99 - Mar. 5, '99, 8 participants

コンテナ埠頭整備計画

J-98-00331

- PURPOSE** The purpose of this training course is to help participants understand the background of containerization and methods of planning, construction, maintenance and management of container terminals as well as the containerization policy currently applied in Japan, and thus to help each of the participants figure out the future prospects for containerization in their respective countries.
- MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures, intensive study at Kobe Port (one of the leading ports in Japan) and group work. Participants will be divided into several groups to study a subject which is chosen by them (such as engineering, computers, etc.) and to make presentations at the end of the course. The following are the major subjects to be covered in the course. (1) containerization and development of container terminals (2) method of planning container terminals (3) management and maintenance of container terminals
- QUALIFICATION OF APPLICANT** (1) presently engaged in or will be engaged in container terminal planning and/or container terminal management (2) university graduate or equivalent with more than five years of occupational experience in the field of ports and harbours (3) over 30 but under 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ports and Harbours Bureau, Ministry of Transport

**PORT AND HARBOUR ENGINEERING II**

May 7, '98 - Sep. 10, '98, 15 participants

港湾工学 II

J-98-00035

- 1. PURPOSE** The course is designed to contribute to cultivating the human resources development of port engineers who are expected to play an important role in port development in participating countries so as to improve the technology in solving various technical problems in port development.
- 2. MAIN FEATURES OF CURRICULUM** This course consists of lectures, exercises, observations, intensive field study at the Onahama Port and discussions. It covers: (1) basic theories of port and harbour engineering (2) advanced technology for port development (3) port development in Japan
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) presently engaged in port and harbour-related civil engineering with more than three years of occupational experience (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ports and Harbours Bureau, Ministry of Transport (3) Ports and Harbours Research Institute, Ministry of Transport

**SEMINAR ON PORT ADMINISTRATION AND MANAGEMENT**

Sep. 17, '98 - Nov. 13, '98, 17 participants

港湾管理運営セミナー

J-98-00440

- 1. PURPOSE** The seminar is designed to contribute to cultivating the human resources development of port administrators and managers who are expected to play an important role in port development in participating countries so as to improve port administration and management systems in respective countries.
- 2. MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on case study at one of the six biggest ports in Japan, report presentation and discussion. The main themes are: (1) present situation of ports and harbours in Japan (a) port development policy (b) system and organization of port administration and management (c) labour problems (2) technical knowledge on port management and operation services (3) ports and harbours in participating countries
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) currently engaged in the port administrative works and/or management with more than eight years of occupational experience in the field of ports and harbours (3) between 30 and 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Ports and Harbours Bureau, Ministry of Transport

**SEMINAR ON AVIATION SECURITY**

Jan. 26, '99 - Feb. 26, '99, 14 participants

航空保安セミナー

J-98-00318

- 1. PURPOSE** The purpose of this seminar is to provide participants with fundamental knowledge of aviation security practiced in Japan, which includes ICAO specifications. Participants will also have the opportunity to exchange views in the field of aviation security among other participants and Japanese lecturers, thus contributing to investigating applicable methods to improve aviation security in participating countries.
- 2. MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese systems as an example. The following major subjects will be covered in the seminar. (1) civil aviation in Japan (2) airport management and security guard (3) countermeasures for aviation security (4) security control systems (5) presentation and discussion by participants (6) observation of airports and aviation facilities to: (a) deepen the fundamental knowledge of international measures for aviation security, (b) acquire the fundamental knowledge of countermeasures for aviation security and of security control system practiced in Japan as a reference, (c) deepen the fundamental technical knowledge of security equipment, and (d) identify the problems of aviation security in each participating countries, and thus contributing to considering the improvement for such problems.
- 3. QUALIFICATION OF APPLICANT** (1) university graduates or the equivalent (2) currently employed by their governments or other public authorities for civil aviation (It is desirable to be in the leading positions of administrative and/or policy-planning sections for aviation security) (3) have not less than five years of occupational experience in the field of aviation security (4) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Civil Aviation Bureau, Ministry of Transport (3) Airport Security Business Center (ASBC)

**SEMINAR ON AIR TRAFFIC CONTROL**

not executed in FY 98

航空管制セミナー

- 1. PURPOSE** The purpose of this seminar is to provide participants with an understanding of overall civil aviation activities in Japan, which include current organization, Air Traffic Control (ATC), Air Traffic Services (ATS)-related matters, planning/policy etc., thus giving them broader views to work out their own future plans and policies.
- 2. MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of Japanese systems. The following is the subjects to be covered in the seminar, and it does not include any on-the-job training on ATC or training using simulator for ratings. (1) civil aviation and transportation (2) air traffic services at present and in future (3) air traffic control services in Japan
- 3. QUALIFICATION OF APPLICANT** (1) university graduates or the equivalent (2) currently employed by their government or by public authorities (3) an Air Traffic Controller or have more than 3 years of experience in the field of Air Traffic Control (4) under 45 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Civil Aviation Bureau, Ministry of Transport (3) Air Traffic Control Association, Japan
- 5. REMARKS** This seminar is not formulated to provide participants with ATC on-the-job training/training using simulator for ratings.

**COMPREHENSIVE URBAN TRANSPORTATION  
PLANNING AND PROJECT**

Sep. 15, '98 - Dec. 3, '98, 20 participants

総合都市交通計画・プロジェクト

J-98-00581

- 1. PURPOSE** This course aims to provide the participants with the theory and techniques of comprehensive urban transportation planning, as well as the necessary techniques for the implementation of urban transportation project.
- 2. MAIN FEATURES OF CURRICULUM** (1) Study trip for the purpose of observing and understanding the present conditions of urban transport planning, introduction and operation in Japan. (15 days) (2) Lectures on comprehensive urban transport project such as planning, operation and management. (25 days) (3) Discussion on the traffic problems in each country, and country report presentation.
- 3. QUALIFICATION OF APPLICANT** Applicants for this course should; (1) be currently engaged in urban planning, urban transportation planning or urban transportation faculty planning, (2) be university graduates or have equivalent abilities with at least 3 years of experience in their profession, and (3) be under 40 years of age.
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre, JICA (2) The City Bureau, Ministry of Construction

**SEISMOLOGY AND EARTHQUAKE ENGINEERING II**

Aug. 31, '98 - Jul. 25, '99, 20 participants

地震工学 II

J-98-00012

- 1. PURPOSE** The purpose of the course is to contribute to upgrading the knowledge and technique of the participants in the field of seismology and earthquake engineering through lectures (including colloquiums, exercises, practical training, observation tours) and individual studies, so as to nurture researchers and engineers capable of playing an important role in these fields.
- 2. MAIN FEATURES OF CURRICULUM** Participants will be divided into two groups: (1) seismology and (2) earthquake engineering by their request on application. This course consists of, common subjects for all participants, individual subjects for each of the group, and individual training in the laboratory. The outline of the subjects on the training course are as follows. (1) both groups: general seismology and earthquake engineering, strong ground motion, mathematics, basic programming of computer, etc. (2) seismology group: computer, elasticity, data processing, seismic surface waves, interpretation of seismograms, seismicity and plate tectonics, study trip, individual study, etc. (3) earthquake engineering group: soil mechanics and dynamics, structural analysis and dynamics, earthquake resistant design of building structure, study trip, individual study, etc.
- 3. QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with professional experience of more than three years (2) well versed in basic mathematics such as differentiation and integration (3) under 35 years of age
- 4. TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) International Institute of Seismology and Earthquake Engineering (IISEE), Building Research Institute, Ministry of Construction
- 5. REMARKS** (1) Those participants who have passed the examination on more than five subjects and submitted their individual study report are granted a Diploma of IISEE. (2) An intensive Japanese language class will be conducted prior to the technical training for one week.

**SEMINAR ON SEISMOLOGY AND  
EARTHQUAKE ENGINEERING**

May 11, '98 - Jun. 19, '98, 12 participants

地震工学セミナー

J-98-00246

- 1. PURPOSE** The purpose of this seminar is to provide participants with general and practical fundamentals applicable to various areas of operational meteorological services, through lectures, exercises, study tours and technical visits thus motivating participants to gain the comprehensive knowledge to be future leaders in their respective national meteorological services.
- 2. MAIN FEATURES OF CURRICULUM** This course consists of lectures, discussions and field tours on the theme set up for each time. The theme for fiscal year 1998 is "Promotion of RADIUS project and earthquake disaster mitigation in urban areas", and main subjects are as follows: overview of RADIUS project, characteristics of earthquake disasters on Urban Life and facilities, Seismology and input motion for structures, seismic performance evaluation and strengthening of buildings and Disaster mitigation planning.
- 3. QUALIFICATION OF APPLICANT** should (1) university graduate or equivalent with professional experience in the field of earthquake engineering for more than five years, and be engaged in the research on seismic structural design on analysis and estimation of a seismic risk, (2) over 30 and under 50 years of age.
- 4. TRAINING INSTITUTIONS** (1) Tsukuba International Centre (TBIC), JICA (2) International Institute of Seismology and Earthquake Engineering (IISEE), Building Research Institute, Ministry of Construction
- 5. REMARKS** This course is conducted every other year in principle. A certain subject is selected out of Seismology or Earthquake Engineering for each time.

**METEOROLOGY II**

Aug. 17, '98 - Dec. 19, '98, 9 participants

気象学 II

J-98-00187

- 1. PURPOSE** The purpose of this seminar is to renew the knowledge and expertise of engineers and seismologists who have previously participated in "The Group Training Course in Seismology and Earthquake Engineering" or an equivalent course so as that they can play an important role in mitigating the disaster of earthquakes around the urban area. Since 1990's is decided as "IDNDR", which stands for International Decade for National Disaster Reduction, this course is mainly intended for engineers and researchers whose cities are designated by IDNDR secretariat as RADIUS (Risk Assessment Tools for Diagnosis of Urban Areas against Seismic Disasters) project case study cities.
- 2. MAIN FEATURES OF CURRICULUM** This course mainly consists of lectures with appropriate exercises and study visits. The themes of lecture/exercises are; (1) theoretical basics and technologies for operational meteorological services (2) personal computers in meteorological services (3) meteorological satellite data (4) short, medium and long range forecasting methods including numerical weather prediction (5) selected topics from research activities at Japan Meteorological Agency
- 3. QUALIFICATION OF APPLICANT** (1) presently engaged in meteorological services for their governments or government-related public organizations (preferably having experience engaged in forecast) (2) university graduate or equivalent (WMO Classes I or II) with more than three years of occupational experience in the field of operational/practical meteorological services (3) under 40 years of age
- 4. TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Japan Meteorological Agency (JMA)



**VOLCANOLOGY AND VOLCANIC SABO ENGINEERING**

Mar. 22, '99 - Sep. 16, '99, 7 participants

火山学・火山砂防工学

J-98-00401

- PURPOSE** The purpose of the course is to introduce participants to basic and modern concepts of volcanology and mitigation of volcanic disasters through lectures, exercises and field studies. For this purpose, the first half of the course is allotted to the common course and the second half is divided into two topics; volcanology and volcanic sabo engineering (volcanic disaster prevention engineering).
- MAIN FEATURES OF CURRICULUM** This course consists of three parts; (1) common subjects for all participants (2) training for sub-groups (3) individual training at university/research institute/technical center. For the second part, participants will be divided into the volcanology group and volcanic sabo engineering group. Volcanology group studies. (2) (a) up-to-date physical and geological concept of volcanism (b) theory of seismology, geodesy, geomagnetism, geotherm and geochemistry with the aid of exercises (c) methods of volcano monitoring, data analysis and interpretation emphasizing eruption forecasting. Volcanic sabo engineering group studies (a) basic theories necessary for study and planning of erosion and sediment control engineering (b) mechanism and structure of debris mud flows (c) engineering technology and administrative countermeasures against volcanic disaster in the second part of training.
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent (2) be under 35 years of age (3) presently engaged in the volcanic observation and/or disaster prevention (sabo works) and be scheduled to engage in the same field after completion of the course.
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Department of Erosion and Sediment Control, Ministry of Construction (3) Japan SABO Association
- REMARKS** (1) Country Reports will be highly utilized both for the selection of participants and for the country report presentation. (2) All the participants of this course are requested to bring Volcanological or Volcanic Sabo Engineering data necessary for the theme of studies during their individual programmes. (3) An intensive Japanese language course will be conducted for one week prior to the technical training.

**GEOTECHNICAL ENGINEERING**

Oct. 15, '98 - Dec. 10, '98, 12 participants

地盤工学

J-98-00232

- PURPOSE** The purpose of this course is to introduce participants to new methods and knowledge concerning fundamental theory, applied technology, various structure designs, and evaluation methods in the field of soil mechanics and foundation engineering, which are essential for planning, implementation and management of public works and construction projects. NOTE: This course is designed for researchers or senior officials engaged in soil mechanics and foundation engineering. It is not recommended for administrative staff who do not have a fundamental knowledge of soil mechanics and foundation engineering.
- MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips. (1) geotechnical engineering in general (2) earth structures (3) laboratory soil testing (4) soil exploration (5) soil improvement (6) foundation of structures (7) evaluation of design
- QUALIFICATION OF APPLICANT** (1) researcher or senior official in charge of geotechnical construction, administration or geotechnical construction projects, and have more than five years of practical experience in central or local government, or government related organization (2) under 45 years of age (3) university graduate or equivalent, and have knowledge of soil mechanics and foundation engineering
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Economic Affairs Bureau, Ministry of Construction (3) The Japanese Geotechnical Society
- REMARKS** Country Reports will be highly utilized both for the selection of participants and for the Country Report presentation.

**BRIDGE ENGINEERING II**

Aug. 6, '98 - Oct. 22, '98, 14 participants

橋梁工学 II

J-98-00071

- PURPOSE** The purpose of the course is to provide opportunities to learn the general techniques of bridge engineering, used in Japan (including planning, design and construction of bridges) so that the participants will be able to improve the technology in bridge engineering and to contribute to the development of their countries.
- MAIN FEATURES OF CURRICULUM** In this course, the following major subjects will be covered through lectures, discussions and observation trips. (1) roads and bridges in Japan (2) design and construction of substructures (3) design and construction of concrete bridges (4) fundamental bridge design theory (5) design and construction of steel bridges (6) maintenance and repair of bridges
- QUALIFICATION OF APPLICANT** (1) university graduate or equivalent with occupational experience of more than five years (2) presently engaged in bridge and highway construction (3) not more than 40 years of age
- TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Road Bureau, Ministry of Construction
- REMARKS** Country Reports will be highly utilized both for the selection of participants and for the Country Report presentation.

**CONSTRUCTION PROJECT MANAGER**

Aug. 31, '98 - Nov. 13, '98, 9 participants

建設施工管理者

J-98-00385

- PURPOSE** The purpose of this course is to help senior administrative engineers of public corporations, and private enterprises to master comprehensive techniques, practical knowledge and application techniques in project planning, construction management, and quality control with a view to upgrading the ability of leading construction managers in developing countries, thus contributing to the qualitative improvement of construction technology and civil works in their respective countries.
- MAIN FEATURES OF CURRICULUM** The course will be conducted in the form of lectures, observations of construction sites, case studies, group work, discussions, and practical training. Emphasis will be put on case studies. The main themes are: (1) introduction of management and organization of construction projects (2) construction planning (3) construction management and methods (4) construction project management (group study)
- QUALIFICATION OF APPLICANT** (1) university graduate or those who have undergone higher education in the field of civil engineering or have equivalent educational qualifications (2) at least five years of experience as construction managers (3) under 40 years of age
- TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Japan Construction Training Center Foundation (JCTC) (3) Engineering Affairs Management Section Minister's Secretariat, Ministry of Construction (MOC) (4) International Affairs Division, Economic Affairs Bureau, MOC (5) Planning Department, Kinki Regional Construction Bureau, MOC
- REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week.

**CONSTRUCTION ENGINEERING II**

Aug. 3, '98 - Nov. 12, '98, 9 participants

建設施工 II

J-98-00209

1. **PURPOSE** The aim of the course is to help senior administrative engineers of governmental organizations to gain broader views on construction engineering by introducing the latest techniques and information related to construction engineering, thus to contribute to the development of human resources in this field of participating countries.
2. **MAIN FEATURES OF CURRICULUM** This course consists of lectures and observations. The main themes are: (1) general information on public works in Japan and overseas construction (2) fundamental studies (a) geotechnical engineering, concrete, asphalt, steel and new materials, introduction of construction machinery, etc. (3) execution planning and management (a) work planning, process planning, introduction to construction management, machinery control, safety control, counter measures for environmental protection, cost estimation, geotechnical analysis, etc. (4) construction techniques (a) earthwork, concrete work, shield work, paving work, improvement work, foundation work, tunnel construction, bridge construction (steel and concrete), road maintenance work, dam construction, Sabo work, etc.
3. **QUALIFICATION OF APPLICANT** (1) university/college graduate in civil engineering or equivalent (2) under 40 years of age (3) more than five years experience in planning, design, execution and project management of civil works
4. **TRAINING INSTITUTIONS** (1) Osaka International Centre (OSIC), JICA (2) Japan Construction Mechanization Association (JCMA) (3) Construction Equipment Division, Ministry of Construction (MOC) (4) Construction Equipment Division, Kinki Regional Construction Bureau, MOC
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for two weeks.

**WATER RESOURCES DEVELOPMENT AND ITS USE IN ARID AREAS**

Aug. 17, '98 - Nov. 22, '98, 9 participants

乾燥地水資源の開発と利用

J-98-00409

1. **PURPOSE** The purpose of the course is to enable the participants who are in charge of water resources development in arid and semi-arid areas to acquire the basic knowledge and technique for the development of water resources and effective use of water in the field of agriculture, thereby contributing to the solution of the problems which arise from the shortage of water and hence food in those areas.
2. **MAIN FEATURES OF CURRICULUM** In this course, the emphasis is put on observation, report presentation, lectures which introduce Japanese experience of agricultural practice and usage of water resources in arid or sandy areas, and discussion by participants. It mainly covers: (1) natural environment of arid areas (2) run-off analysis (3) river and groundwater engineering (4) facilities of water storage and water supply (5) agriculture practice of arid areas (6) irrigation, drainage and water quality (7) water management (8) water resources planning (9) information processing. The participants should submit reports on each subject of the curriculum during the course period.
3. **QUALIFICATION OF APPLICANT** (1) presently engaged in either research, engineering, or educational activity and have more than two years of occupational experience in the field (2) university graduate or equivalent (3) not more than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Chugoku International Centre (CIC), JICA (2) Tottori University (Faculty of Engineering, Faculty of Agriculture and Arid Land Research Center)
5. **REMARKS** A compulsory intensive Japanese language course will be conducted prior to the technical training for one week (25 hours).
6. **OTHER** The course has been held 10 times so far, and it is the last course.

**SEMINAR ON ADMINISTRATION FOR DISASTER PREVENTION**

Jan. 26, '99 - Feb. 26, '99, 14 participants

防災行政管理者セミナー

J-98-00402

1. **PURPOSE** The purpose of the seminar is to: (1) provide the latest administrative knowledge of disaster prevention as a total system of prediction, evacuation, recovery and disaster reduction. (2) show the variety of the activities and organizations involved in disaster prevention administration, give a brief outline of the individual activities and demonstrate how these are organized in the Japanese disaster prevention administrative system. (3) exchange ideas and experiences concerning natural disaster prevention, and to discuss international cooperation for natural disaster reduction.
2. **MAIN FEATURES OF CURRICULUM** In this seminar, the emphasis is put on introduction of basic theory and exchange of ideas and experiences. The main themes are; (1) policy formation, enforcement and implementation of disaster countermeasures in developing countries (2) international cooperation for natural disaster prevention and reduction
3. **QUALIFICATION OF APPLICANT** (1) presently engaged in government agencies responsible for disaster prevention (2) not more than 45 years of age (3) university graduate or equivalent
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Disaster Prevention Bureau, National Land Agency

**SEMINAR ON ADVANCED TECHNOLOGY OF CONSTRUCTION**

May 12, '98 - Jun. 26, '98, 9 participants

建設工事先進技術セミナー

J-98-00479

1. **PURPOSE** The purpose of the seminar is to provide participants with the latest work methods, new materials and inspection methods so that the participants would be able to contribute to the improvement of construction work in their respective countries.
2. **MAIN FEATURES OF CURRICULUM** The seminar will NOT cover all the field of construction. It covers the following major subjects: (1) outline of advanced construction technology (2) advanced work methods in civil engineering work (3) application of new material (4) advanced inspection method
3. **QUALIFICATION OF APPLICANT** (1) university graduate of civil engineering or related courses, or equivalent (2) have more than seven years of actual experience in construction works (3) not more than 40 years of age
4. **TRAINING INSTITUTIONS** (1) Tokyo International Centre (TIC), JICA (2) Minister's Secretariat, Ministry of Construction (3) Japan Construction Training Center (JCTC)
5. **REMARKS** This seminar does not cover the field of building construction.